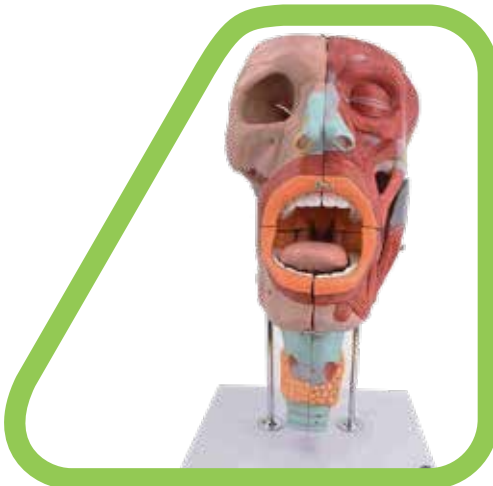




EduScience UK[®]
We Contribute To Future Education



BIOLOGY & ENVIRONMENTAL CATALOGUE

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www.eduscienceuk.com



Dear Valued Customers

I would like to Thank you for helping EduScience UK Ltd Company in accomplishing its mission: to contribute in future education.

We strive to provide educators worldwide the best innovative products, services and solutions.

We have added in this catalogue over 4600 products including

our latest STEAM and Science Kits that has been developed to adapt the different curriculum needs along with teaching manuals that make hands-on easy for students so they are engaged and have fun doing science experiments in the same time

In addition to our catalogue we have enhanced Eduscienceuk website so you can now order most of our products easily at any time and with flexible payments methods

I'd like to thank you for helping us improving our self so we hopefully can satisfy your needs and we wish to have your regular feedback which defiantly keep our team working on enhancing our self to serve you better.

Sincerely
EduScience UK Ltd



EduScience UK[®]
We Contribute To Future Education

“COMPLETE SOLUTIONS OF EDUCATIONAL SUPPLIES”

EduScience is a UK based science equipment's Manufacturer, partnered with Reputed Science Education Factories one of the oldest established companies in the field of science education. It was foremost in the development of the Nuffield Science Project acting as consultants to British Government to revolutionize science teaching across the world.

EduScience provide the highest quality and support service possible to meet today's demands from science education.

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More than a supplier of Science Education Supplies

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Everything one needs for teaching science including laboratory design and furniture.

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Spend your budget wisely, buy purchasing relevant equipment. We match apparatus to your practical lesson requirements exactly to your curriculum needs.

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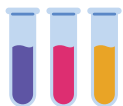
Our rigorous Quality Assurance policy means that all of our products usually exceed those in place throughout the world.

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A progressive development programmer ensures that science teaching keeps in step with progress to provide your students with the experience of higher education, industry or research.

EduScience with Its heritage has always been about progressive design and development since the 1960s. and continues today offering curriculum development to Governments around the world and produces bespoke equipment to meet their specific needs. You can tap into this vast experience and knowledge.





PRODUCTS

From Analogue Meter to Zoological specimens, a true comprehensive provider of everything you could need for your lab whether an established or brand new facility.

STEAM

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- Technology, from design through to robotics, data logging and cross curricula links
- Engineering, the latest technology from 3D printing to workshop resources
- Math, designed by educationalist and maths experts with software and practical lessons

STEAM KITS

For teachers with busy schedules EduScience STEM kits help lesson planning and preparation leaving you more time to inspire your students with exciting resources.



ROBOTICS

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EduScience robotic kits help students to develop problem solving ability and logical thinking skills while learning about robotics and science principles.



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Take the fear out of leading practical physics lessons. Using EduScience Kits or teaching systems provides easy to prepare practical lessons in your lab which inspire the students and enhance their learning experience.

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EduScience offer complete range of chemistry lab equipment's including glassware, Chemicals and disposables we keep many of those products in our store to cater the immediate needs.

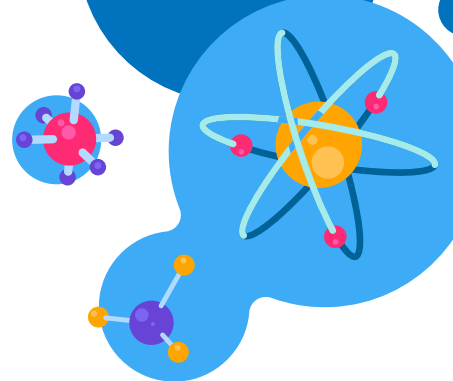




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EduScience have produced a complete comprehensive range of resources for practical work for biology students from elementary to high school to first year teaching labs in universities.

As experts in the field of microscopy we can offer training for teachers and technicians in the application for microscopes and maintenance



ENVIRONMENTAL AND FORENSIC SCIENCE.

Environmental science along with the study of forensics grips the imagination and curiosity of students across all age ranges.

EduScience Kits and models support student's learning of principles, concepts and methodology. of these skills are transferable within current curricula. Our Kits, excite and inspire as well as support teachers in lesson planning and reducing technical time in preparation and lesson management.



EDUCATIONAL AND LABORATORY FURNITURE

EduScience produce complete range of laboratory and class room furniture's in standard and custom made, we promise to provide you comprehensive furnishing solutions that convert your school into a place where everyone feels comfortable. It's also our challenge to remain committed to setting new standards in quality, design, and service.

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SMART MATERIAL AND FUN SCIENCE

EduScience have been working with teachers and educational specialists to deliver playful learning experiences that bring subjects to life in the classroom and make learning fun and impactful. We have a wide range of physical and digital educational resources that encourage students to think creatively, reason systematically and release their potential to shape their own future.

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Our Team is here to Help!

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- Phone: +44 (0)203 8685740
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Anthony Edwards, International Sales Director

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- UK Fish & Wildlife
- Hazardous materials
- Agricultural products
- Voltage requirements

Note: Custom's related "taxes and duties" are your responsibility and are not paid for by EduScience UK Ltd Company.

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When goods value above 10,000 USD then payments of goods can be made by letter of credit we would like to ask that particular attention to be given to the following when instructing your bankers. Adherence to this point will avoid delays or inconvenience and the expenses of amending letters of credit

The credit must be:

In favor of Edu Science uk
Irrevocable and Confirmed
Payable at 100% at sight

For the full value of the order

Claused to allow partial shipments

Claused to all transshipment

Payable against the usual documents evidencing shipments from agreed Port/Airport

Allowing 21 days from shipments date for personation of documents



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To prepay send Telex transfer or money order with your purchase order, call us for exact shipping charges in advance or add your courier account number.

All payment to be in USD to Edu Science UK bank account.

Shipping Information

Shipping Methods for Online Orders

We offer three convenient shipping methods for online orders. Please note that many products can only ship using limited shipping methods, such as living/perishable items, which can only ship Second Day or Overnight. Please see details lower on this page.

Standard delivery—Orders arrive in 15-20 business days.

Shipping Rates and Fees

Shipping rates and handling fees are based on the type of purchasing you are doing. See Shipping Information for Special Item Types for details.

All Customers - our sales specialist will calculate your freight and handling charges based on the weight of the items in your order and the

distance to your shipping destination.

Schools, Institutions, and Organizations - for qualified customers, our website will calculate your freight & handling charges based on the weight of the items in your order, the destination/distance, and your freight terms and discounts.

During Checkout, you will see a Freight & Handling total for your entire order. You must be logged in and your User Profile must be associated to your school in order to get the appropriate freight terms and applicable discounts.

Shipping Information for Special Item Types

Hazardous Materials

The shipment of many hazardous items is regulated by the UK Department of Transportation. Items subject to regulation are identified by one of three hazardous material icons on our website. Hazardous materials shipments incur an additional transportation fee which is charged by the carrier.

Orders for hazardous materials (and kits and sets containing these items) can only be accepted from schools, research institutions, medical facilities, and businesses. Hazardous materials cannot be shipped to individuals, homeschoolers, and other customers, but there is often a safe item that can be substituted.

Drop-Shipped Items

Some of our items are drop-shipped directly from the manufacturer. Drop-shipped items vary in their shipping timeframes and this information is available on the item's detail page—such as "This item ships from the manufacturer and will arrive in 4-6 weeks". These items are also separated from in-stock products on the Shipping Methods step of Checkout.

Backordered Items

When an item is not in stock, but we have more on the way, you can backorder the item. Backorder information along with the expected availability date is provided at the order confirmation stage

The EduScience Pledge: 100% Satisfaction Guarantee

All of our products are unconditionally guaranteed. If for any reason you are not satisfied with any item, you may return it for a replacement, a refund, or credit. It's that simple.

Return an Item

- Contact Customer Service at + 44 1376340506 or info@eduscienceuk.com (8 am to 5 pm, ET, Monday–Friday).
- Have your purchase order number and EduScience Performa invoice/confirmed order number available.

A Customer Service Representative will give you a Return Authorization Number and any additional instructions. The number allows us to quickly credit your account or credit card once the item has been returned and processed.

Items not in Resalable Condition

Items not in resalable condition cannot be returned unless damaged or defective. Items held more than 1 month and returned in resalable condition are subject to Preapproval and a 25% restocking fee.

Drop-Shipped Items

For drop-shipped items (such as furniture or equipment), a 25% restocking fee will apply if you return the product for any reason other than shipping damage or manufacturing defect. You are responsible for shipping the product back to the manufacturer in resalable condition and in the original packing



SERVICES

TEACHER AND TECHNICIAN TRAINING

We provide comprehensive teacher training program and lab technicians with hands on experiments

CURRICULUM DEVELOPMENTS

We work with Ministries of education worldwide to identify the best bespoke scenario for developing science, mathematics and technology education curriculum for their country, to support national aims and objectives. And introduce STEM concepts that complement the current curriculum

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Our experienced engineers are able to service your microscopes.

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Our experienced engineers will service your balances and ensure that they are accurately calibrated.

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We have a wealth of expertise identifying your needs and according to your curriculum requirements, packing, delivering with our own transport, and helping you unpack and check off your new laboratory equipment.

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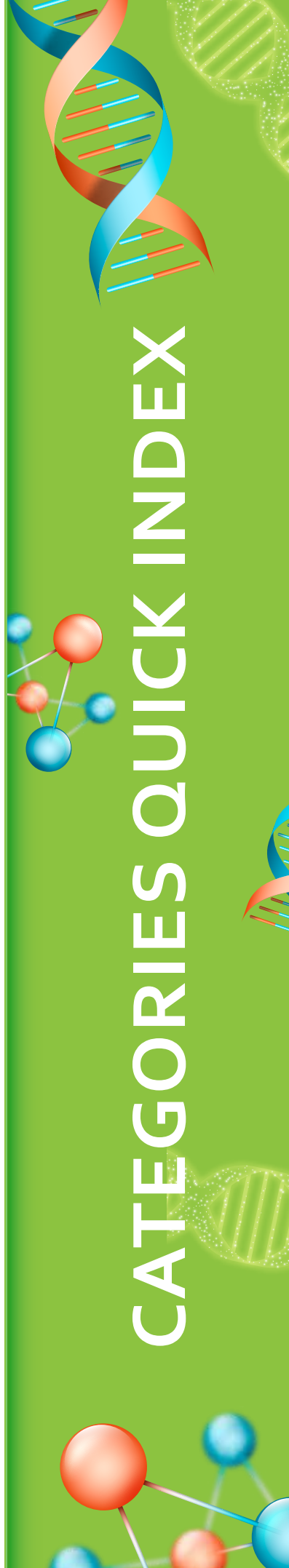
We employ a specialist team of chemists to pack and label hazardous chemicals ready for removal. Our trained ADR drivers will then transport to a registered waste station, and we provide full documentation for your peace of mind.

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We use a professional furniture manufacturing company to assess your needs and design a tailored solution, using your chosen materials, including modern and innovative designs

	Biology	
	Microscopies	
	Forensics Science	
	Enviroments	
	Index	

CATEGORIES QUICK INDEX



BIOLOGY



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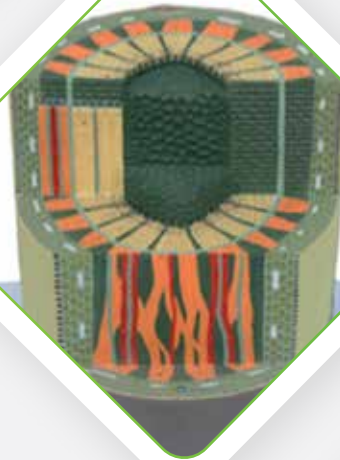


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BIOLOGY

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- Animals & Ecology
- Human Body
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CMES Data Logger

VinciLab

Modern Data-logger for Science



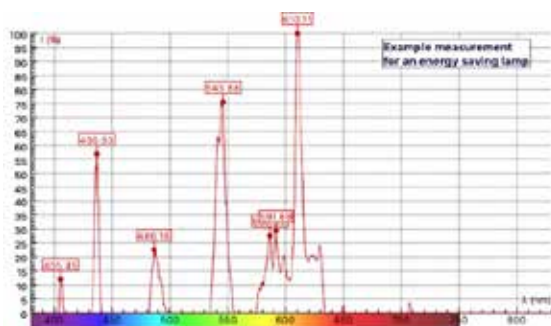
VinciLab is an advanced mobile graphic data acquisition system. It is a handheld Linux device equipped with two processors and 4GB memory. Its 5" capacitive color touch screen offers easy control of the device. For wireless connectivity VinciLab is equipped with Wi-Fi and Bluetooth. VinciLab can be used standalone and with a computer, in the classroom and in the field.



ESD50000

Operating System	Linux
Display	5" (800 x 480 pixel) capacitive color touch screen
Processors	Two: main (ARM 720 MHz) and measurement
Memory	4 GB, of which 1.5 GB user memory in the 'My Files' folder Expandable with a USB flash drive
Power	Rechargeable battery Li-ion 3.7 V, 4000 mAh USB Power Adapter (100-240 V AC, DC 5V/2A) included
Connectivity	Wi-Fi 802.11 b/g/n Bluetooth® 2.1 + EDR
Computer connection	Mini USB port also used for powering
USB port	Full USB for USB peripherals
Other ports	Audio In/Audio Out
Sensor inputs	4 analog BT (right-hand) inputs and 2 digital BT (left-hand) inputs. Each analog input can work as a counter
Built-in sensors	Sound sensor, max. frequency 44 100 Hz 3-axis Accelerometer (2g, 4g, 8g), max. frequency 400 Hz
ADC resolution	12 bits
Sampling frequency	Max. 1 MHz, simultaneously on 2 analog inputs
Outputs	Via digital sensor inputs Eight 1-bit or two analog outputs
Software on board	Dedicated Desktop Applications Coach 6 Application for data collection, graphing and analysis





Coach 7 Desktop

Our Coach software is the most versatile and complete software for STEM Education.

Coach integrates ICT tools, which resemble technologies used by professional scientists and facilitate an inquiry-based approach to education. By collecting high-quality, real-time data, constructing and using models, using simulations and visualizations, comparing results from experiments and models, students can be actively involved in authentic learning activities.

Coach 7 is the successor of Coach 6 and offers new features and enhancements of our unique and powerful environment.

5 years Single User License

ESD50013



Blood Pressure Sensor

The Blood Pressure sensor 0377i is used to measure arterial blood pressure in humans (non-invasive). It measures the pressure signal caused by the interaction between the cuff and the blood flow through the brachial artery.

Range: 20 .. 250 mm Hg

Accuracy: 3 mm-Hg

Includes: standard adult size adjustable cuff (27 cm to 39 cm) and bulb pump (with release valve).

Can be used to:

- Blood pressure as a vital sign
- Effect of exercise on blood pressure.

ESD50025



CO2 Gas Sensor Low-range

The CO2 sensor BT24i is used to monitor low concentrations of gaseous carbon dioxide. The sensor uses the Non-Dispersive Infrared Detection (NDIR) method.

Range: 0 .. 5000 ppm

Typical resolution: 20 ppm

Includes: 250-mL sampling bottle.

Can be used to:

- Investigate CO2 level during respiration of small animals and insects,
- Monitor CO2 changes during photo-respiration and photosynthesis in light/dark.
- Measure CO2 level during cellular respiration of peas or beans.

ESD50026





Dissolved Oxygen sensor *

The Dissolved Oxygen sensor BT34i can be used to measure the concentration of dissolved oxygen in water samples. The sensor is automatically temperature compensated, using a thermistor built into the sensor. Disposable caps with pre-fit membranes allow you to quickly and conveniently change membranes.

Range: 0 to 15 mg/L

Resolution (12-bit): 0.2 mg/L

Includes: replacement membrane cap, polishing strip, oxygen probe electrolyte, filling pipette, empty calibration bottle and Sodium Sulphite Calibration Standard.

Can be used to:

- Monitor dissolved oxygen concentration in an aquatic systems, measure Biological Oxygen Demand (B.O.D.) in water samples.
- Determine the relationship between the dissolved oxygen concentration and the temperature of water.

ESD50028



CO2 Gas Sensor High-range

The CO2 sensor BT25i is used to monitor high concentration of gaseous carbon dioxide. The sensor uses the Non-Dispersive Infrared Detection (NDIR) method.

Range: 0 .. 100000 ppm

Typical resolution: 1000 ppm

Includes: 250-mL sampling bottle.

Can be used to:

- Investigate CO2 levels of human breath,
- Monitor production of CO2 during chemical reactions,
- Monitor production of CO2 during decomposition of organic materials in soils.

ESD50027



ECG Sensor

The ECG sensor BT36i measures voltages that are produced by the heart. These voltages are measured at the skin of the wrists and elbow through electrodes. The voltages are amplified by the sensor and filtered and transferred through an optical coupler.

Range: 0 .. 5 mV

Resolution (12-bit): 1.2 μ V

Includes: a package of 100 electrode patches.

Can be used to:

- Monitor ECG in rest and after mild exercise,
- Investigate CG changes with mild stimulants,
- Record the electrical activity of a muscle (EMG).

ESD50029



Exercise Heart-rate Sensor

The Exercise Heart-rate sensor BT47i monitors a person's heart beat. Each time the heart beats, an electrical signal is generated. This signal is measured at the surface of the skin by electrodes embedded in the chest belt of the sensor. The system consists of a transmitter belt, plug-in receiver, and an elastic strap.

Transmitter: T31 by Polar Transmitter

Range: 90 cm

Can be used to:

- Compare the heart rate of different individuals,
- Check the person's heart rate before, before, during and after a vigorous activity,
- Monitor the recovery rate.

ESD50030



Flow Rate Sensor *

The Flow rate sensor 0387i measures the velocity of flowing water. It can be used to study the discharge, flow patterns, and sediment transport of flowing water. The Flow rate sensor is equipped with impeller rod with 5-m cable.

Range : 0 .. 4.0 m/s

Resolution (12-bit): 0.005 m/s

Can be used to:

- Measure stream flow rates,
- Investigate sediment transport,
- Determine stream discharge values

ESD50031

NOTE All * Marked sensors need a sensor cable (IEEE1394-BT) ESD50250, which has to be purchased separate.





Heart-rate Sensor *

The Heart-rate sensor 027i provides a simple way to study the heart's function. The sensor clip consists of a small infrared LED and an infrared light sensor. The sensor measures the light level transmitted through a tissue of the ear lobe that occur as the blood volume changes in the tissue.

Range : 0 .. 5 V, each heartbeat gives a peak.

Can be used to :

- Investigate the heart rate of different individuals.
- Measure of the heart rate before and after a vigorous activity.
- Determine the recovery rate of the heart after physical exercise.
- Measure the heart rate before and after drinking coffee or Coca-Cola.

ESD50032



Oxygen Gas Sensor *

The Oxygen Gas sensor BT59i measures the gaseous oxygen concentration. The wide measurement range allows it to be used in study of human and cellular respiration.

Range : 0 .. 100 %

Resolution (12-bit): 0.03 %

Lifetime : 5 years in open air

Can be used to :

- Monitor changes in oxygen concentration during photosynthesis and respiration of plants,
- Monitor respiration of animals, insects, or germinating seeds,
- Measure the oxygen levels during human respiration.

ESD50033



Spirometer Sensor

The Spirometer BT82i measures air flow rate during human respiration. The sensor consists of a flow tube through which the air is inhaled and exhaled and a differential pressure sensor.

Range : -5 .. 5 L/s

Resolution (12-bit): 0.01 L/s

Includes : disposable bacterial filter and 10 disposable mouthpieces.

Can be used to:

- Record breathing patterns before, during and after exercise,
- Measure important lung capacities like Forced Expiratory Volume, Forced Vital Capacity and Tidal Volume.

ESD50035



Temperature Sensor *

This Temperature sensor BT01 is a low-cost, general-purpose temperature sensor that can be used to measure temperature in the range of -40°C to 140°C, in liquids (water, mild acidic solutions) and air. The sensing element of the sensor is an NTC thermistor, which is positioned in a stainless steel tube. The thermistor is a variable resistor whose resistance decreases non-linearly with increasing temperature.

Range : -20 °C .. 140 °C

Accuracy : 2°C at -40°C, 0.6 at 30°C, 1.8°C at 140°C

Can be used to:

- Monitor indoor and outdoor temperatures,
- Monitor freezing and boiling water,
- Investigate the temperature during endothermic and exothermic reactions,
- Investigate evaporation

ESD50036



Relative Humidity Sensor

Relative Humidity Sensor The Relative Humidity sensor BT72i measures relative humidity. The sensor consists of an integrated circuit, which uses a capacitive polymer to sense humidity. The holes in the sensor box provide air circulation

Range : 0 to 100 %, Resolution (12-bit): 0.04 % RH

Can be used to:

- Study transpiration rates of plants,
- Optimize conditions in a greenhouse or terrarium,
- Determine good days for static electric demonstration.

ESD50034

NOTE All * Marked sensors need a sensor cable (IEEE1394-BT) ESD50250, which has to be purchased separate.



**Light Sensor ***

The Light sensor 0142i measures light intensities in the range between 0 and 200 lux. It consists of a photo-transistor, which receives light through a glass fibre. Because of its range the sensor is suitable for measurements in normal indoor situations.

The sensor can also be used as a light gate.

Range: 0 .. 200 lx

Resolution (12-bit): 0.05 lx

Can be used to:

- Verify inverse square law,
- Monitor changes in light caused by a chemical reaction,
- Investigate light reflection and absorption,
- Investigate light interference patterns.

ESD50037

**PH Sensor**

The pH sensor BT61i is a general-purpose pH measurement system that allows measuring the degree of acidity/pH value. The sensor consists of a pH amplifier and pH electrode.

The pH Electrode is not delivered with the pH sensor and has to be purchased separately (Order Code 031).

Range : 0.. 14 pH

Resolution (12-bit): 0.005 pH

Can be used to :

- Measure pH values of different acids and bases,
- Monitor pH in acid-base titration experiments,
- Monitor pH during chemical reactions,
- Investigate of water quality in streams and lakes

ESD50038

**Thermocouple ***

The Thermocouple sensor 0135i measures temperatures in two ranges, which can be selected using the switch. The sensor uses a thermocouple type K, which consists of Chromega and Alomega wires that are welded together to form a measuring junction.

Range : -200.. 1300 °C, -20 .. 110 °C

Resolution (12-bit): 0.39 °C, 0.035 °C

Can be used to :

- Measure the temperature inside a Bunsen burner flame or candles,
- Determine the melting point of copper, bismuth, or other solids,
- Measure temperature in specific heat experiments.

ESD50039

**Turbidity sensor**

The Turbidity sensor BT88i measures the turbidity of water samples in the range between 0 ... 200 NTU.

Range: 0 .. 200 NTU

Resolution (12-bit): 0.2 NTU

Includes : one empty cuvette and one cuvette containing 100 NTU Stable CAI Formazin Standard, which is used to calibrate the sensor.

Can be used to :

- Measure turbidity of a water sample from various locations,
- Determine the rate of settling of a sample,
- Measure the formation of a precipitate.

ESD50040

**Pressure Sensor**

The Pressure sensor BT66i is designed to measure absolute gas pressure. The pressure is measured via a pressure valve, which is located on the side of the box. The sensor has two measurement ranges, which can be selected using a switch.

Range : 0 .. 700 kPa, 0 .. 130 kPa

Resolution (12-bit): 0.2 kPa, 0.04 kPa

Includes : a plastic 20-ml syringe with Lure-lock, two plastic tubes (5 cm and 45 cm long), a three-way valve with Lure-lock connectors, two Lure-lock connectors.

Can be used to :

- Measure pressure changes in gas-law experiments, Boyle's and Gay-Lussac's laws,
- Measure vapour pressure of liquids,
- Measure air pressure for weather studies.

ESD50041

NOTE All * Marked sensors need a sensor cable (IEEE1394-BT) ESD50250, which has to be purchased separate.





Basic Biology Sensors Bundle Kit

- CO2 Gas Sensor (Low) BT24i
- ECG Sensor BT36i
- Heart-rate Sensor 027i
- Light Sensor BT50i
- PH Sensor BT61i and Electrode 031
- Temperature Sensor BT01
- Thermocouple 0135i
- Relative Humidity Sensor BT72i
- 4 Sensor Cables BTsc_4

ESD50042



Biology Sensor Bundle Extension Kit

- CO2 Gas sensor (High) BT25i
- Dissolved Oxygen sensor BT34i
- Oxygen Gas sensor BT59i
- Pressure sensor BT66i
- Spirometer BT82i
- Turbidity sensor BT88i

ESD50043



WiLab Wireless Sensor Connector

The WiLab is an easy-to-use data-logger for STEM Education that can be used for measurement and control. WiLab offers two types of connectivity:

wired via USB cable for computers (Windows and Mac), and Android tablets (via OTG cable),
wireless via Bluetooth®1 for tablets (iPad, Android) and Chromebooks.

The following items are included with WiLab:

USB cable for connecting WiLab to a USB port or to the USB power adapter.

USB Power Adapter for powering WiLab and charging its battery.

User's Guide.

ESD50159

Xlogger System Introduction :

Xlogger is an innovative new data logging system using direct USB sensors & Excel® for data capture and analysis. Our sensors plug straight into USB ports on any Windows computer. No dedicated software program just Microsoft Excel®

Data is logged directly into Excel® and graphed automatically

Simple toolbar commands control everything

Completely intuitive - start logging straight away

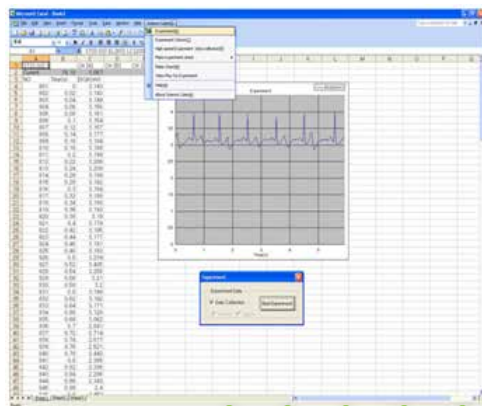
Students work in the familiar Excel® environment

All the power of Excel® for analysing data is immediately available

All the standard sensors with new ones being developed

Simply plug them in and start logging (no calibration needed)

Robust construction and encapsulated leads



ES Data-Logging Software

Xlogger is an innovative new data logging system using direct USB sensors & Excel® for data capture and analysis. Our sensors plug straight into USB ports on any Windows computer. No dedicated software program just Microsoft Excel®

Data is logged directly into Excel® and graphed automatically

Simple toolbar commands control everything Completely

intuitive - start logging straight away Students work in the familiar

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immediately available All the standard sensors with new ones

being developed Simply plug them in and start logging (no

calibration needed) Robust construction and encapsulated leads



ESD50014





USB Temperature Sensor

Xlogger Stainless Steel Temperature Sensor.

Range : -25°C to 125°C

Resolution : $\pm 0.1^\circ\text{C}$

ESD50185



USB Oxygen Sensor

Xlogger Oxygen Sensor.

Range : 0 - 100% Oxygen

ESD50184



USB Barometer Sensor

Xlogger Barometer.

Range : 0 to +2068 hPa (mbar)

Resolution : 0.6 hPa

ESD50188



USB Relative Humidity Sensor.

Xlogger Relative Humidity Sensor.

Range : 0 to 100%

Resolution : $\pm 0.4\%$

Accuracy : $\pm 2\%$ at 25°C

ESD50187



USB Light Sensor

Xlogger Light Sensor.

Range : 0 - 15,000 Lux

ESD50186



PH electrode

The pH electrode 031 is a gel-filled Ag-AgCl combination-electrode in a plastic tube. It has a coax cable, with a BNC connector. It is supplied in a bottle filled with a protective solution. The electrode cannot be refilled.

ESD50242



USB Turbidity Sensor

Xlogger Turbidity Sensor.

Range : 0-200 NTU

Accuracy : $\pm 2\text{NTU}$ under 25NTU, $\pm 5\%$ over 25NTU

ESD50189

**Disposable Bacterial Filter**

Disposable bacterial filter for Spirometer BT82i.

ESD50243

**Disposable Mouthpiece**

Package of 100 disposable mouthpieces for Spirometer BT82i.

ESD50244

**Electrode Patches**

Package of 100 electrode patches for ECG sensors 0628i, BT36i and ML84m.

ESD50245

**Adapter 4mm – BT**

For connecting sensors with 4-mm plugs to interfaces with BT inputs such as CMES,

ESD50248

**BT-BT Extension Cable (Analogue)**

A 5-m long cable for extending the length of analogue BT sensor cables.

ESD50247

**CO2 to O2 Tee**

The CO2-O2 Tee allows connecting a CO2 Gas Sensor and O2 Gas Sensor to be used at the same time.

ESD50246

**Disposable Bacterial Filter**

(Pkg of 1)

For BT82i Spirometer

ESD50252

**Disposable Mouthpiece**

(Pkg of 100)

For BT82i Spirometer

ESD50253

**Data Logger Stand**

Plastic stand for the CMES data-logger.

ESD50249

**Photosynthesis set incl.**

Chamber and LED lamp

ESD50254

**Replacement Membrane Cap**

for BT34i DO sensor

ESD50251

**BT - IEEE1394 Cable**

The BT – IEEE1394 sensor cable (1.5 m length) is used for BT sensors, which are equipped with the IEEE1394 socket.

These sensor cables are sold per piece (BTsc_1) and in packages of four (BTsc_4).

ESD50250

4 X BT-IEEE1394 Sensor Cable

set of 4 nos bt ieee1394 sensors cable

ESD50255





EduScience Wireless Sensors

EduScience Wireless Sensors can be used to measure without an interface. They are simple, user-friendly, and offer more mobility and flexibility. They can be used anywhere without the need for power or wired connections and are suitable for a wide range of student experiments.

Connectivity: The sensors operate wirelessly via Bluetooth or wired via USB and can be used with a variety of

Devices: computers, Chromebooks and mobile devices.

Display: The sensors are equipped with a color OLED screen which displays the battery level and the measured sensor value. This unique feature makes the sensors suitable for use as independent measuring devices.

Battery: The sensors have a large battery capacity and a smart way to save power by automatically turning off when they're not used. They can be used an average of 12 hours without needing to be charged.

work with all platforms on which the ES Data logging Coach software works.

Wireless Temperature Sensor

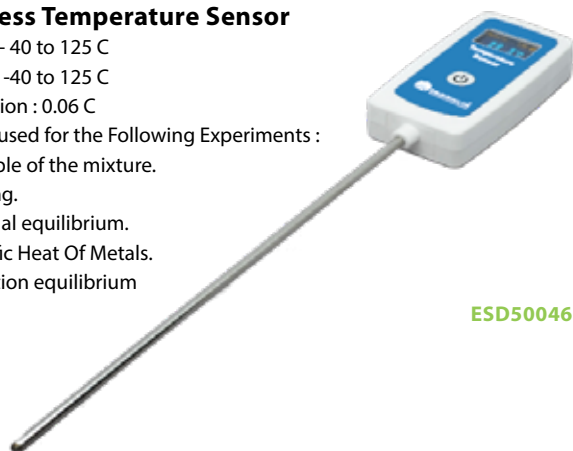
Range: -40 to 125 C

Range : -40 to 125 C

Resolution : 0.06 C

can be used for the Following Experiments :

- Principle of the mixture.
- Cooling.
- Thermal equilibrium.
- Specific Heat Of Metals.
- Radiation equilibrium



ESD50046

Wireless Gas Pressure Sensor

Range: -3000+~1000hPa

Resolution: 0.244 hPa

Wireless gas pressure sensor» measures relative values to ambient pressure.

When

measuring pressure, it

converts to an intermediate form, such

as a displacement, which converts

the displacement into an electrical

output, such as a voltage or current. This wireless sensor does not require

a separate cable so that can be used easily in complex experiment

environments. Also, it is possible to connect up to 4 sensors at same time,

so you can use it with other kinds of sensors together.

Experiment list ; Boyle's Law ; Cloud creation principle

Reaction rate according to acid concentration

Solubility of Gas with Temperature



ESD50103

Wireless PH Sensor

Range : 14~0 pH

Resolution: 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen ion concentration. It is a principle to determine the pH value from the potential difference between the glass electrode and the reference electrode with two standard solutions that know the pH value.

The Science Cube Wireless pH Sensor does not require a separate connection cable, so it can be easily used in complex experimental environments such as monitoring pH change during neutralization of acid-base, chemical reaction and checking pH in a water tank during photosynthesis.

You can use this sensor for investigation of acid rain and water quality as well. Experiment

list Neutralization

PH measurement of various solutions



ESD50098

Wireless pH with Glass Body (100°C)

Range : 14~0 pH

Resolution : 0.001 pH

Wireless pH sensor is a sensor that measures hydrogen ion concentration. It is a principle to determine the pH value from the potential difference between the glass electrode and the reference electrode with two standard solutions that know the pH value.

The Science Cube Wireless pH Sensor does not require a separate connection cable, so it can be easily used in complex experimental environments such as monitoring pH change during neutralization of acid-base, chemical reaction and checking pH in a water tank during photosynthesis.

You can use this sensor for investigation of acid rain and water quality as well. Experiment

list Neutralization

PH measurement of various solutions



ESD50098GS





Wireless Conductivity Sensor

Range: 20:000 4~0 uS/cm

Resolution: 0.3 uS/cm

The wireless conductivity sensor can measure the conductivity of a solution or the total ion concentration of an aqueous sample.

Conductivity measurement can directly infer the super ion concentration of the sample, even if the specific ion is unknown during the environmental test of the aqueous sample.

Experiment list

Significance of cell division

Electrolytes and non-electrolytes

Neutralization reaction

ESD50099



Wireless CO₂ Gas Sensor

Range: 5.000~0 ppm

Resolution: 2.44 ppm

The wireless CO sensor can measure carbon dioxide in the air or in confined spaces such as botanical gardens and animal kennels. In addition, it is a sensor that can measure the amount of carbon dioxide produced by respiration of small creatures such as crickets by using an experimental tool such as an Erlenmeyer flask. Experiment list Yeast respiration photosynthesis Respiratory rate as a function of temperature Metabolic rate of insects according to temperature Changes in citric acid and sodium bicarbonate

ESD50051



Wireless Electrode Amplifier Sensor

ESD50166



Wireless Colorimeter/ Turbidity Sensor

Measurement Range: ± 0.5 V, ± 2 V, ± 10 V

Measurement range: ± 0.5 V, ± 2 V, ± 10 V Display: 0.96»

Battery: Li-polymer (700mAh) Wireless: BLE 4.2

Wired: USB-C

Experiment list : Charging measurement by induction and frictional contact

ESD50105

Wireless Light/Color/UV Sensor

Range : -12.5+~ 12.5 mA

Range: - Illuminance: 199,000~ 1

lux Chromaticity: 1 to 65,535 counts

UV: 11~0 UV index

Resolution - Illuminance: 0.1 lux

Chromaticity: 1 count

UV: 0.1 UV index

The wireless Light/Color/UV sensor is a sensor that measures wavelengths from the visible light range to the ultraviolet range so that optics-related experiments can be carried out.

Experiment list

Light intensity according to distance photosynthesis

The brightness of the light bulb depending on the battery light synthesis

Principle of sunscreen

ESD50169



Wireless Oxygen Gas Sensor

Range: %25 ~ 0

Resolution: %0.01

The wireless oxygen sensor is

a sensor that accurately measures the amount of oxygen in the air or in an enclosed space,

The wide range enables any experiment or measurement, and can measure atmospheric air along with carbon dioxide,

Experiment list

Photosynthesis

Plant oxygen

ESD50049



Wireless ORP (Oxygen Reduction Probe) Sensor

Range: -41,000~ 450mV

Resolution: 0.5mV

Wireless ORP sensor ORP sensor is a test device that measures the ratio of oxidation (loss of electrons) and reduction (gain of electrons) of dissolved substances in solution.

The unit is m, and it can be measured together with the pH value of a solution.

Experiment list :Measurement of redox degree

Transformation of Coke

ESD50101



Wireless Weather Station

Temperature: -60- 40°C
 Humidity: 100-0 %RH
 Barometer: 1,100-300hPa
 Wind Direction: 360-0°
 Wind Speed: 30-0 m/s -Light: 0
 188,000 Lx - UV: 10-0 Index
 The wireless weather sensor is a multi-sensor that can measure various meteorological measurement with one sensor. Built-in display and wireless communication add portability and convenience.

Experiment List

Weather observation during the day
 Weather forecast through change of weather information in our village. Compare the weather in your current location with the local weather forecast.



ESD50056



Wireless Fine Particles Sensor

Range: 500~0 min

Resolution: 1 am

The wireless fine dust sensor can measure fine dust in the air and simultaneously measure fine dust (10um) and ultrafine dust (2.5um).

Experiment list

Measure whether fine dust is generated when using a gas stove
 Measurement of fine dust in the air
 Measuring the effect of air purifying plants
 Measurement of fine dust according to location

ESD50055

Wireless B-Differential Gas Pressure Sensor

Range: -4650 ~ 650 hPa

Resolution: 0.355 hPa

Wireless pressure sensor B has a narrower range than pressure sensor A. It can measure pressure more accurately, has excellent resolution and is used in chemical experiments where a small amount of gas is generated.

Experiment list

Decomposition of hydrogen peroxide
 How clouds are formed
 Reaction rate according to surface area
 Experiment list
 Decomposition of hydrogen peroxide
 How clouds are formed
 Reaction rate according to surface are



ESD50102



Wireless Temperature / Humidity Sensor

Range: %100~0

Resolution: %2

Wireless temperature-humidity sensor is a sensor that can measure relative humidity and temperature at the same time. It outputs a voltage according to the relative humidity in the air and detects humidity by air circulation.

Experiment list

Measurement of evaporation rate according to humidity
 Observation of optimal growth conditions by relative humidity in greenhouses, etc.
 Comparison of static electricity generation according to humidity

ESD50048



Wireless Heart Rate Sensor

Measurement

Range: 250 ~ 0 BPM

Resolution: 1 BPM

Display: 0.96"

Battery: Li-polymer (700mAh)

Wireless: BLE 4.2 - Wired: USB-C

Experiment list: Comparison of atrial rate before and after exercise
 Measurement of effects of stimulants, etc. (caffeinated beverages such as cola, coffee, etc.)
 Measure your heart rate during various movements (sitting, standing, sudden movements, etc.)

ESD50053

Wireless EKG Sensor

Range: 5~0 mV

Resolution: 5 UV

Experiment list

ECG measurement
 Stimulus and response
 Comparing visual, auditory and tactile response times



ESD50052





Wireless Dissolved Oxygen Sensor

Range : 50~0 mg/L

Resolution: %1

The wireless DO sensor is an optical dissolved oxygen sensor and is a wireless DO sensor for measuring dissolved oxygen in aqueous solution. Measured values are automatically compensated for temperature, barometric pressure and salinity

Experiment list

Photosynthesis of aquatic plants

Water quality measurement

ESD50050



Wireless Salinity Sensor

Range: 50 ~0 pot

Resolution: 0.02 pot

Experiment list Measuring sea salt level Measuring salinity by season

ESD50100



Wireless Thermocouple Temperature Sensor

Range: -1200 ~ 200°C

Resolution: 0.6°C

Experiment list

Flash point measurement

Temperature measurement for inner flame, outer flame and flame core

ESD50047

Wireless Spirometer Sensor

Range: -5~5 L/s

Display : 0.96»

Battery : Li- polymer (700mAh)

Wireless : BLE 4.2

Wired : USB-C

Experiment list

Spirometry

Pulmonary function test



ESD50054

Eco Chamber for Sensors

This product is designed for educational purposes to be used in scientific applications is an experiment kit that

can perform photosynthesis and respiration tests of underwater plants and land plants as well. In order to realize natural photosynthesis, a special lighting LED dimmer is used to minimize an increasing of temperature inside the chamber caused by the heat of light during indoor experiments. Other animals (frogs, grasshoppers, etc.) can be used for respiration and seed germination experiments.

kit composition is as follows:

1. Chamber: A device that collects O₂ and Co₂ during photosynthesis and respiration experiments of plants.
2. Light source & power: It is a lighting device that generates light for photosynthesis and the intensity of light can be adjusted.
3. Blackout (light-shielding): A curtain to block light in the breathing test of plants
4. Accessories : sensor fixed rubbers and stands

ESD50270

Light Source for Photosynthesis Chamber

ESD50271





Butter Fly Net

Butter fly net with metal handle

ESB50351



Insect Net

Insect net with metal handle

ESB50352



Insects Set Jumbo

Set of different insect made of plastic, large size

ESB50354



Magnifier 2 Way

These ideal first microscopes consist of a slide tray, a vertical microscope which allows the pupils to study specimens from above, and a horizontal viewer which allows the study of specimens from below. The vertical section, when in place, forms a sealed unit which prevents any live insects from escaping, but can also be lifted off and used as a magnifying glass.

ESB50461



Bug Bot

Plastic viewers with 2X lenses and grid printed on the base. Diameter: 50mm.

ESB50353



Trundle Wheel

Clicker can be set to 3 positions (off, every 100mm or every metre). Moulded in strong plastic with a hard wearing tyre for use indoors or outside.

ESB50355



Soil Test Apparatus

Use to measure soil pH.

Consist of :

Test Tube \varnothing 16 x 150 mm 4 pcs
Test Tube \varnothing 13 x 100 mm 6 pcs
Dropping Pipette 15 cm, Red Bulb 2 pcs
Barium Sulphate (100 g/bottle) 1 pc
Aquadest (200 ml/bottle) 1 pc
Spoon, Stainless Steel 1 pc
Universal Indicator (10 booklet/pack) 1 pc
Test Tube Brush \varnothing 24 mm 1 pc
Manual Book Soil Test Apparatus 1 pc
Wooden Box 1 pc

Dimension :

(L) 20.00 x (W) 19.00 x (H) 19.00 cm

Weight : 1.330 kg

ESB50356



Sieves SET

15cm dia. 5 mesh, 10 mesh, 40 mesh, 60 mesh, 120 mesh, 250 mesh with cover & bottom plate.

ESB50357



Hydrometer

HYDROMETER measuring range : 1.000-1.200

ESB50358

HYDROMETER measuring range : 1.200-1.400

ESB50359



Crystallizer Cold Chamber

EduSciences convenient portable Crystallizer Cold Chambers provide an inexpensive alternative to the traditional chill table. Feature removable 60 mm x 15 mm clear polystyrene specimen dishes ideal for handling live insects such as *Drosophila* and mosquitoes. Insects are immobilized for study by subjecting them to cold temperatures. Product includes two 9 cm diameter polypropylene Crystallizers, which are placed in a freezer for one to two hours until they reach a temperature of -18°C (0°F). The polystyrene specimen dish is placed on the chilled metal surface of the Crystallizer to protect insects as they remain chilled for examination. Each Crystallizer will require re-chilling after approximately one hour. Two Crystallizers are provided so that one may be chilled while the other is being used. Prior to first use, freeze Crystallizers overnight.

Specimen Chambers Pack of 10

Grades 9-14

ESB50360



Cells I

The focus of this kit is to learn about cell structures and organelles and correlate cell structure with function. Students view living and dead cells, prokaryotic and eukaryotic cells, live plant and animal cells, and live micro-organisms from pond water. Students gaining experience making wet mounts and stain cells using iodine and methylene blue. Includes cell theory, mitosis and cytokinesis. Designed to share reagents in groups of four. Requires microscopes, goggles, gloves, pond water, potato, and onion. Grade 7-10. Box dimensions B-Box 12 x 11 x 4-1/2 inches, Grades 7-10.

ESB50462



Cells II

(Lab Supports Photosynthesis and Respiration, Energy Storage and Transport)

Students model cellular osmosis and diffusion in the lab and study the different methods of cellular transport; passive transport, active transport, facilitated diffusion, pinocytosis and phagocytosis. Students learn how plant and animal cells obtain and store chemical energy. They learn how energy is released during cellular respiration and stored as ATP. They compare the energy content of carbohydrates, lipids, and proteins using calorimetry. They compare the processes of anaerobic and aerobic respiration and the organisms in which each occurs. Students study the process of photosynthesis and separate simulated plant pigments using paper chromatography.

Requires thermometers, beaker, test tubes, test tube support, goggles, scissors, coloured pencils, matches, and food samples for calorimetry. Grades 7-10..

ESB50463





Chart - General Zoology-I Set

Set of 8 charts covering different topics General Zoology - each Size 50x70cm

Includes : Typical Animal Cell * Animal Mitosis * Hydra * Paramecium* Amoeba Proteus * Hookworm * Tapeworm * Earthworm.

ESB50375

Chart - General Zoology-Ii Set

Set of 8 charts covering different topics General Zoology - each Size 50x70cm

Includes : Euglena * Animal Kingdom * L.H. Of Frog (Metamorphosis)* L.H. of Mosquito * Epithelial & Connective Tissue * Simple & Complex Tissue * Rabbit Dissection & Skeleton

ESB50376

Chart - General Zoology-Iii Set

Set of 8 charts covering different topics General Zoology - each Size 50x70cm

Includes : Frog Anatomy and Skeleton* Frog Digestive * Frog Circulatory * Frog Respiratory System* Frog Nervous System* Frog Reproductive System (Male)* Frog Reproductive System (Female)* Frog Heart

ESB50377

Chart - General Zoology-Iv Set

Set of 8 charts covering different topics General Zoology - each Size 50x70cm

Includes : Rat Excretory System* Rat Digestive System* Rat Circulatory System* Rat Reproductive System (F)* Rat Reproductive System (M)* Rat Anatomy, Dissection showing internal organs (F)* Rat Brain and Heart

ESB50378





The Fish Factory

The purpose of this exercise is to stress the relationship between structure and function and to study the adaptability of fish to their environments. The activities teach about classification systems, anatomy, habitats, and behaviour. Students create a new fish and assign their creation a genus and species name. Then they coordinate its habitat, survival techniques, behaviour, and feeding patterns. At the end of their project, students defend the characteristics they have selected for their new fish species in a five minute presentation. Designed for 24 students working in groups of two. Grades 5-9

ESB50464



Resources Of The Living Ocean

The activities in this kit examine the uniqueness and importance of fish and elodea algae; two of the main living resources of the ocean. Students study the relationship of form and function in fish as they examine fin shapes and sizes, body shapes, mouth size and shape, colour and camouflage. Students predict habitats and behaviours by observing structures on fresh fish and may use a dichotomous key to identify the fish by genus species. They will study oxygen production through photosynthesis in elodea. Required, but not included: microscopes, fresh whole fish, elodea, lamps or sockets with bulbs, ice and a cooler, and glassware. Designed for 24 students working in six groups of four. Grades 9-12

ESB50465



American Beaver Skull

Highly detailed, anatomically correct plastic replica of an American Beaver skull. This robust, high-quality replica is perfect for classroom studies at any level.

The American beaver is the largest rodent found in North America. These aquatic herbivores make large dams of wood and mud to flood and create habitat. Using their large incisors, beavers can chew through the biggest trees. It is for this reason that the American beaver has become a nuisance in some areas where they are overpopulated.

ESB50466



Animal Adaptation Skull Kit - Birds

Highly detailed, anatomically correct plastic replicas of a selection of birds. This robust, high-quality replica is perfect for classroom studies at any level. This kit examines some unique beak adaptations used for feeding and communication. Kit includes: Curriculum and teaching guide, Toucan, Ibis, Great-horned owl, and Spoonbill skull replicas.

ESB50467





American Black Bear Skull

Highly detailed, anatomically correct plastic replica of an American Black Bear skull. This robust, high-quality replica is perfect for classroom studies at any level.

The American black bear is found in disjointed populations from Alaska to Mexico. Black bears are omnivorous feeding on plants, berries, insects, small vertebrates and carrion. Black bears grow to reach six feet tall and can weigh over 300 pounds. The American black bear is a skilful climber and can run up to 25 miles per hour. Also available, black bear articulated fore paw. This specimen is perfect for comparative anatomy with a human hand.

ESB50468



Badger Skull Model

A life size plastic cast of a carefully selected adult Badger (Meles Meles) skull. The mandible is articulated and the dentition is complete, clearly showing the characteristics of a typical carnivore. The skull has the excellent surface detail typical of ES skulls, is robust enough for students to handle and easily cleaned with soapy water.

ESB50470



Animal Adaptation Skull Kit - Mammals

Highly detailed, anatomy

Mammals are a very diverse order of animals. They inhabit nearly every corner of the Earth. This kit focuses on a few of the extreme adaptations mammals have made to occupy their many niches. Kit includes: Curriculum and teaching guide, Owl monkey, Giant anteater, and Sea otter skull replicas.

ESB50469



Cat Skull, Model Plastic

A life size plastic cast of a carefully selected adult cat skull. The mandible is removable and the dentition is complete, showing the characteristics of a typical carnivore. This robust cast shows excellent detail and is ideal for handling by students. It is easily cleaned with soapy water.

ESB50472

Bird Of Prey Skull Kit

Highly detailed, anatomically correct plastic replicas of a selection of birds of prey. This robust, high-quality set is perfect for teaching about birds of prey (raptors) and their unique predatory adaptations and lifestyle. Kit includes: Curriculum and teaching guide, Red-tailed hawk, Great-horned owl - Peregrine falcon, and Bald eagle skull replicas.

ESB50471





Chimpanzee Skull Model, Plastic

A life size plastic cast of a carefully selected adult female Chimpanzee. The mandible is removable and the dentition is complete. The skull is robust enough for students to handle and is easily cleaned with soapy water.

Size 13x13x21cm.

ESB50473



Comparative Skull Set

Highly detailed, anatomically correct plastic replicas of a selection of animals. This robust, high-quality skull set gives the student the opportunity to compare the skulls and dentition of two carnivores, two herbivores and one omnivore, as well as a bird and a reptile.

Set Contains: Turtle, Fox, Turkey, Rabbit, Bobcat, Skunk and Porcupine.

ESB50474



Dietary Skull Set

Highly detailed, anatomically correct plastic replicas of a selection of mammals. This robust, high-quality skull set is perfect for classroom studies at any level. These mammal skulls demonstrate their dietary differences - illustrated by each animals dentition. The coyote and mink show the typical slicing carnivore teeth, while the beaver and muskrat show the grinding crushing molars consistent with herbivorous diets. The raccoon and skunk, both being omnivorous, possess both sharp, slicing canines and broad flat molars.

Set Contains: Coyote, Beaver, Raccoon, Mink, Muskrat and Skunk.

ESB50475



Domestic Pig Skull Model

Highly detailed, anatomically correct plastic replica of a Domestic Pig skull. This robust, high-quality replica is perfect for classroom studies at any level.

The domestic hog, also known as swine, wild boar or feral hog, descended from introductions of Eurasian wild hogs. Pigs are believed to have been domesticated in Asia between 7000 and 10,000 years ago. Today, the domestic hog is farmed world wide as a food source. Feral, or wild, hog populations exist in the US from escaped domestic swine and introduced specimens for sport hunting.

ESB50477



Dog Skull Model , Plastic

A life size plastic cast of a carefully selected medium size adult dog skull. The mandible is removable and the dentition is complete, clearly showing the characteristics of a typical carnivore. The skull has the excellent surface detail typical of ES skulls, is robust enough for students to handle and easily cleaned with soapy water.

ESB50476





Gorilla Skull, Plastic

A life size plastic cast of a carefully selected adult male Gorilla, the largest of the primates. The mandible is removable and the dentition is complete. The skull is robust enough for students to handle and is easily cleaned with soap and water.

Size 18x20x40cm.

ESB50478



Hare Skull

Highly detailed, anatomically correct plastic replica of a Hare skull. This robust, high-quality replica is perfect for classroom studies at any level. The Hare, also called the Jack-rabbit in the United States, is found throughout most of the world. They are born precocial, meaning they are born with hair and are independent shortly after birth. Hares and Jack-rabbits are probably best known for their large ears and powerful hind jumping legs.

ESB50479



Hedgehog Skull

Highly detailed, anatomically correct plastic replica of a Hedgehog skull. This robust, high-quality replica is perfect for classroom studies at any level.

Hedgehogs are covered with sharp quills that aid in their protection. Many species of hedgehogs can roll into a ball, hiding all vulnerable areas of the body under the protective spines. Hedgehogs live under logs or in burrows that they dig. They eat a wide variety of foods, including invertebrates, reptiles, carrion, roots, and fruits. Hedgehogs are active only at night, and some species hibernate in the winter.

ESB50480



Mountain Goat Skull

Highly detailed, anatomically correct plastic replica of a Mountain Goat skull. This robust, high-quality replica is perfect for classroom studies at any level.

The mountain goat is found in North America from southern Alaska, throughout much of British Columbia and into north-western United States. This agile species inhabits mountainous rocky cliffs and hillsides generally above the tree line. The mountain goat is an herbivorous browser feeding on shrubs, grasses, berries and lichens. Horns are found in both male and females of this species.

ESB50481



Mouse Skull

Highly detailed, anatomically correct plastic replica of a House Mouse skull. This robust, high-quality replica is perfect for classroom studies at any level.

The term «mouse» can refer to any number of small rodents within the Muridae family. The House mouse *Mus musculus*, is often associated with human populations and can be found on every continent. Mice, like all rodents, have ever growing incisors, and therefore, need to chew on wood or other materials to wear them down. This, along with their appreciation for human food and crops, and the propensity to spread disease, causes the mouse to be one of humanity's worst pests..

ESB50482





Orangutan Skull, Plastic

A life size plastic cast of a carefully selected adult male Orang Utan. The mandible is removable and the dentition is complete. The skull is robust enough for students to handle and is easily cleaned with soap and water.
Size 16x16x18cm.

ESB50483



Predator & Prey Skull Set

Highly detailed, anatomically correct plastic replicas of a selection of predator and prey skulls. This robust, high-quality replica skull set is perfect for classroom studies at any level. Offers two of the most common and abundant predators found in North America and three of the most common prey. The Coyote & Bobcat also fill similar prey niches on the North American food chain. Nicely demonstrates the natural order of things in the predator/prey world and shows anatomical features that make a predator successful. Set Contains: Coyote, Bobcat, Rabbit, Squirrel & Turkey.

ESB50484



Rabbit Skull, Plastic

A life size plastic cast of a carefully selected adult rabbit skull. The mandible is removable and the dentition is complete. This robust cast shows excellent detail and is ideal for handling by students. It is easily cleaned with soapy water..

ESB50485



Sheep Skull Model, Plastic

A life size plastic cast of a carefully selected adult sheep skull. The mandible is removable and the dentition is complete, clearly showing the characteristics of a typical herbivore. The skull has the excellent surface detail typical of ES skulls, is robust enough for students to handle and easily cleaned with soapy water.

ESB50488



Rainforest Skull Kit

Highly detailed, anatomically correct plastic replica of a selection of Rainforest animal skulls. This robust, high-quality replica skull set is perfect for classroom studies at any level.

The tropical rainforest is home to the most biodiversity on the planet. This unique habitat has many wonderful species that have adapted to living in this lush environment. Kit includes: Curriculum and teaching guide, Spider monkey, Sloth, Toucan, and Ocelot skull replicas.

ESB50486





Red Fox Skull Model

Highly detailed, anatomically correct plastic replica of a Red Fox skull. This robust, high-quality replica is perfect for classroom studies at any level.

The red fox is native to North America, Europe and most of Asia and has been introduced to Australia and Africa. Although a member of the order Carnivora, the red fox is essentially an omnivore. It mostly eats rodents, lagomorphs, insects, fruit and occasionally carrion. Red foxes have a characteristic manner of hunting mice. The fox stands motionless, listening and watching intently for a mouse it has detected. It then leaps high and brings the forelimbs straight down forcibly to pin the mouse to the ground.

ESB50487



Small Clawed Otter Skull

Highly detailed, anatomically correct plastic replica of a Small-clawed Otter skull. This robust, high-quality replica is perfect for classroom studies at any level.

The small-clawed otter is native to south-eastern Asia. This species, as its name suggests, has greatly reduced claws, a characteristic shared by all three species within the Aonyx genera. The small-clawed otter is carnivorous feeding on crustaceans, molluscs and small amphibians. This intelligent species has been trained and employed by Malaysian fishermen to catch and deliver fish.

ESB50489



Transparent Canine Jaw, Life-Size

A life-size model of a canine jaw from a medium to large dog. This upper and lower jaw is modelled in transparent material to facilitate the illustration of the individual tooth roots in the canine jaw. The teeth are individually moulded and anatomically correct. Model is supplied as an upper and lower jaw complete with articulator.

ESB50490



Star Fish Model

the model features a detailed study of star fish. Three arms and the central disc of the star-fish are greatly enlarged. Asterias are dissected to show ventral and dorsal surfaces, digestive and water vascular systems, gonads, nerve ring and radial nerves, and the skeleton. A fourth arm is cross-sectioned to show the coelom and tube feet. The surface illustrates the podia and pedicel-lariae. The model can be removed from its stand for closer examination. With numbered Key Card.

ESB50460

Star Fish Model On Stand

Star Fish Model On Stand

The model provides a comprehensive examination of a starfish. Three arms and the central disc are significantly magnified for detailed observation. Asterias specimens are dissected to reveal ventral and dorsal surfaces, digestive and water vascular systems, gonads, nerve ring and radial nerves, as well as the skeleton. Additionally, a fourth arm is cross-sectioned to display the coelom and tube feet. The model's surface showcases podia and pedicel-lariae. It can be detached from its stand for closer inspection and includes a numbered Key Card for reference.

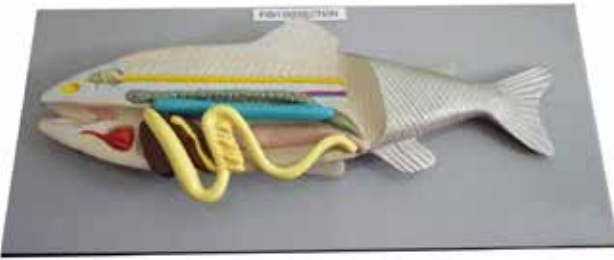
The model is securely mounted on a base With a stand, providing stability for educational or display purposes.

Dimensions : 13*38*53 cm, Weight :3500 g



ESB50457





Fish Model

Lateral view of a general dissection of a typical bony fish. The features shown include digestive tract, gills, fins, gonads and swim bladder. Some detail of the nervous, circulatory and skeletal systems also shown. Carefully painted and mounted on a plastic

Base Size 37.5x17cm.

ESB50491



Fish Model On Stand

This life-size model, consisting of five parts, illustrates the anatomy of a typical bony fish. On the right side, it displays external structures such as fins, eyes, and nostrils, while the left side is longitudinally sectioned to unveil internal characteristics

The detachable components comprise:

Half head, Branchial arch, Liver with intestine, Gas bladder

The model is mounted on a base with a stand.

Dimensions: 40x26x24.5 cm

Weight: 1500 g

ESB50447



Chromosome Model

This single-piece model, 10000X enlarged, shows the structure of a human chromosome. All the main parts- centromere, telomere and loops – are extremely accurately reproduced.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 37*15*15 cm

Weight : 520g

ESB51387



Comparative Tapeworm Model

This model provides a comparative analysis of the structures of Taenia saginata and Taenia solium scolex. It also illustrates the anatomy of the proglottid at three different stages of maturation: immature, mature, and gravid. Important structures such as suckers, hooklets, uterus, and testis are clearly labeled and referenced in the accompanying manual, making it an effective educational tool for studying the morphology and lifecycle of these parasitic organisms.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 9.5*38*53 cm

Weight : 750g

ESB50456





Rat Dissection Model

This 6-part life-size model is an important tool to study zoology, providing a realistic reproduction the anatomy of the rat. The ventral dissection exposes heart and lungs, liver, intestine, male and female genital systems. The internal organs are removable for closer examination

Size :23*18*5.5cm

Net weight : 430g

ESB50492

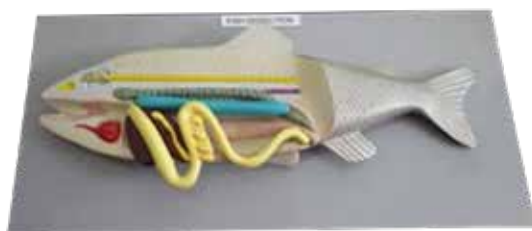


Rat Model General Dissection

An ideal introduction to mammalian anatomy, which can be used in the classroom in place of some dissections. Clearly coloured, the model is male, life size and mounted on a plastic base. The heart and lungs, liver and stomach, and intestines are removable to show other internal organs. A key card with 5 detailed diagrams is supplied.

Base size 30x15cm.

ESB50494



Rat Model / Fish Model / Paramecium Model

Set Of 3

A set of three models: Rat Model / Fish Model / Paramecium Model

Rat Model : An ideal introduction to mammalian anatomy, which can be used in the classroom in place of some dissections. Clearly coloured, the model is male, life size and mounted on a plastic base. The heart and lungs, liver and stomach, and intestines are removable to show other internal organs. A key card with 5 detailed diagrams is supplied.

Base size 30x15cm.

Fish Model : Lateral view of a general dissection of a typical bony fish. The features shown include digestive tract, gills, fins, gonads and swim bladder. Some detail of the nervous, circulatory and skeletal systems also shown. Carefully painted and mounted on a plastic base

Size 37.5x17cm.

Paramecium Model : A detailed model showing internal and external features of Paramecium, including mega nucleus, micronucleus, oral groove, buccal cavity, food vacuoles, contractile vacuoles, trichocysts and locomotory cilia. Mounted on base and supplied with key card.

Size 25x12cm.

ESB50493



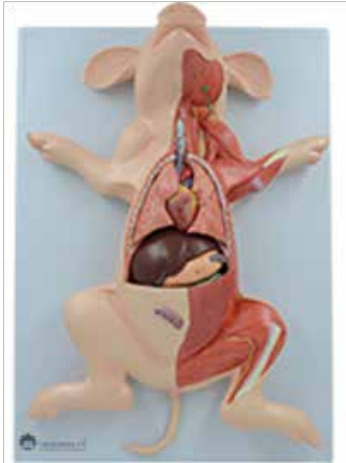
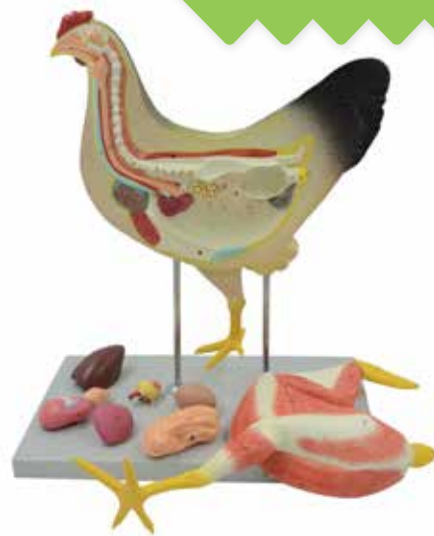
Bird Dissection Domestic Hen Model

This life-size model, composed of eight parts, provides a comprehensive depiction of hen anatomy. On one side, it illustrates the external morphology, while the longitudinally sectioned portion on the other side reveals internal structures including muscles, heart, liver, intestine, stomach, lungs, reproductive system, and an egg. Accompanying the model is a multilingual key card identifying 39 structures.

Dimensions : 40x26x47.5cm

Weight : 2400g

ESB50451



Fetus Pig Dissection Model

The fetus pig model typically represents the anatomy of a developing pig embryo. It may come in various sizes depending on the stage of development being depicted. These models are commonly used in educational settings, particularly in biology and veterinary science, to study fetal development and anatomy in mammals. They often feature lifelike details and can be dissected to explore internal structures.

Dimension : 18*53.5*39.5 cm

ESB50448

Fetus Cat Dissection Model

The cat model is a life-size representation of feline anatomy, it includes detailed musculature on one side to study superficial muscles and removable organs on the other side for examining internal structures. The model helps students learn about the anatomy and physiology of cats, including their skeletal system, muscles, internal organs, and reproductive system.

Dimension : 12*38*53 cm Weight : 2800 g

ESB50452



Cat Skeleton Model

Highly detailed, anatomically correct plastic replica of a Cat skeleton. This robust, high-quality replica is perfect for classroom studies at any level.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimension : 23.5*13*64 cm

Weight : 950 g

ESB50607





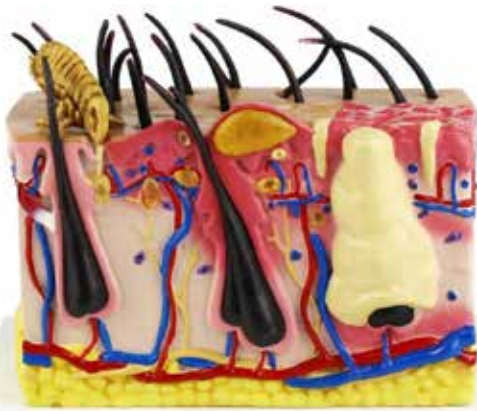
Canine Dissection Model

This is life size dog anatomical model. Right size shows the superficial muscles. Main organs can be taken out to study the internal structure. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 11*42*52 cm

Weight : 2100 g

ESB50450



Canine Skin Model

Enlarged cross-section of canine skin. One side features normal skin anatomy extending from the epidermis down to the layer of subcutaneous fat. The reverse side demonstrates the progressing changes of a flea bite from wheal to infected pustule. The model is securely mounted on a base, providing stability for educational or display purposes. Dimensions : 158*23*33cm

Weight : 2800g

ESB50897



Canine Skeleton Model

Highly detailed, anatomically correct plastic replica of a Canine Skeleton . This robust, high-quality replica is perfect for classroom studies at any level.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimension : 30*20*40 cm

Weight :3200 g

ESB50608

Canine Knee Model

Average size knee with femur, fibula, patella and tibia bones, lateral and medial meniscus, anterior and posterior cruciate ligaments, plus six more ligaments and tendons.

The model is securely mounted on a base with a stand , providing stability for educational or display purposes.

Dimensions : 21*32*41cm

(Each Piece)

Weight : 2400g

ESB50609



Canine Ear Model

This two-sided, average size, canine ear depicts: a normal side with cochlea, auditory ossicles, auditory tube, tympanic bulla, middle ear cavity, tympanic membrane, horizontal canal, vertical canal, auricular cartilage, pinna and temporalis muscle abnormal side illustrates inflamed inner ear structures, inflammatory exudate in tympanic bulla, ear canal with partial occlusion from cellular hyperplasia, inflammatory exudate and an inflamed outer ear.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 15*16*13 cm

Weight : 350g

ESB50896





Horse Dissection Model (Fiber glass)

The product is longitudinally sectioned to show the section structure.

The left outer side of the product shows the distribution of superficial muscles and fascia, and some ribs; the inner side shows the head and neck structure and the shape and distribution of ribs, intercostal muscles, and abdominal wall muscles.

In the chest and abdomen, organs such as heart, lung, liver, stomach, and intestine can be removed, and some organs are shown in cross section to show the internal structure.

The model is securely mounted on a base, providing stability for educational or display purposes.

ESB50453



Sheep Dissection Model (Fiber glass)

The product is longitudinally sectioned to show the section structure.

Part of the skin was peeled off on the left side of the product, showing the shape and direction of the superficial muscles and fascia. The inside shows the shape and distribution of the head and neck structure and ribs, intercostal muscles, and abdominal wall muscles, and shows the cross-sectional structure of the breast.

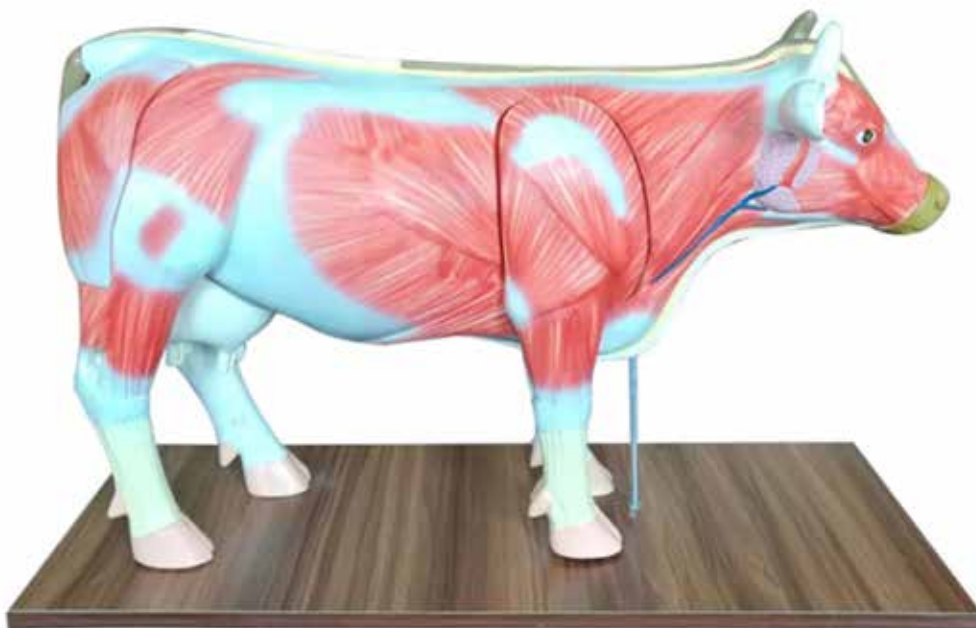
The right outside of the product shows the complete shape, and the inside shows the cross-sectional structure of the head and neck. In the chest and abdomen, organs such as the heart, lungs, liver, stomach, and intestines can be removed, and some organs are sectioned to show their internal structures. Uterine and vaginal sections can be removed..

Dimensions : 63*23*72 cm

Weight : 3800 g

ESB50455





Cow Dissection Model (Fiber glass)

The product is profiled to show the profile structure.

The left side of the product remains intact. The medial structure of the head and neck is shown, showing the shape and distribution of the ribs, intercostal muscles, and abdominal wall muscles. The cross-sectional structure of the breast is shown. In the chest and abdomen, the organs such as heart, lungs, diaphragm, liver, stomach, and intestines can be removed.

Part of the skin is peeled off on the right side of the product, showing the shape and direction of superficial muscles and fascia.

The inside shows the cross-sectional structure of the head and neck, ribs, and abdominal wall muscles, and the vagina and uterus are used as cross-sections.

Dimensions : 56*36*88 cm

Weight : 12500 g

ESB50454



Pig Dissection Model (Fiber glass)

The product is longitudinally sectioned to show the section structure.

The left side of the product is a cross-section on the head to show the cross-sectional structure, and the skin peeled off from the head shows muscle morphology and blood vessel distribution. The forelimbs can be removed to show the distribution and direction of superficial and deep muscles.

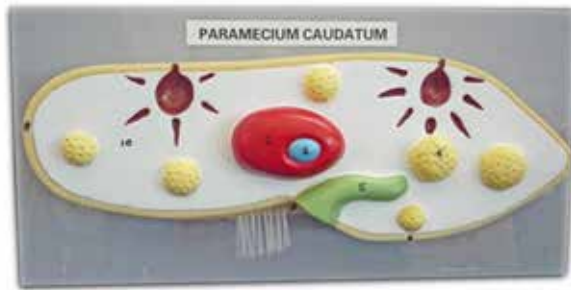
The exterior of the right half of the product shows the complete shape. The inside shows the cross-sectional structure of the head, brain, and throat. Organs such as the chest, abdomen, heart, lungs, liver, pancreas, gastrointestinal tract can be removed, and some internal organs are shown in section to show their internal structure..

Dimensions : 56*33*105 cm

Weight :15500 g

ESB50449





Paramecium Model

A detailed model showing internal and external features of Paramecium, including mega nucleus, micro nucleus, oral groove, buccal cavity, food vacuoles, contractile vacuoles, trichocysts and locomotory cilia. Mounted on base and supplied with key card.

Size 25x12cm.

ESB50496



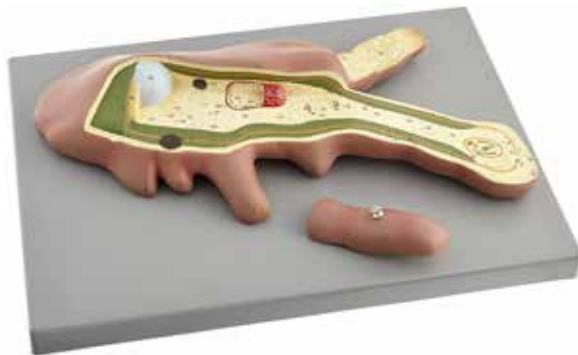
Paramecium Model

The Paramecium Model (3D-Dimension) provides a detailed representation of both the internal and external features of Paramecium. It showcases structures such as the mega nucleus, micro nucleus, oral groove, buccal cavity, food vacuoles, contractive vacuoles, trichocysts, and cilia. The model is mounted on a base for stability. Additionally, it comes with a catalogue or shrink-wrapped key card containing numbered structures labeled in English for easy reference

Dimensions : 40x26x16cm

Weight : 1660g

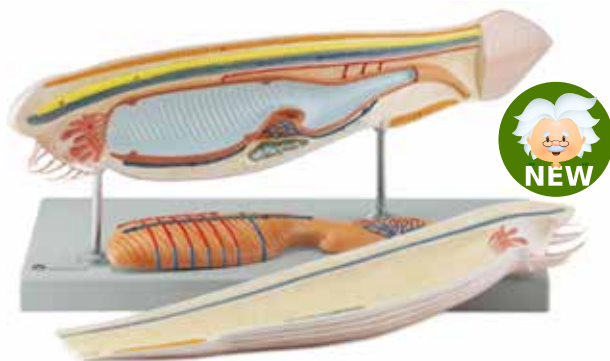
ESB50497



Model Of Amoeba

Enlarged 1000 times, 2 part amoeba model. Operable small pseudo podium for display of internal structures as magnified by electron microscope. Mounted on base. Numbered with key card for identification of features.

ESB50498



Model Of Amphioxus

Enlarged to 10 times life-size, this three-part model illustrates the morphology of an Amphioxus. Its longitudinal section allows for easy study of the inner anatomy, with all main structures like the cerebral vesicle, neural tube, nephridium, gonad, and circulatory system clearly labeled and referenced on the accompanying multilingual key card (included). The model is mounted on a base,

Dimensions : 43x30x18 cm

Weight : 800 g

ESB50459



Animal Cell Model

This singular model, enlarged approximately 13,000 times, serves as an invaluable aid in studying the cytology of a eukaryotic cell. It meticulously replicates typical structures such as microvilli, flagellum, mitochondria, nucleus, rough and smooth endoplasmic reticulum with exceptional detail and precision. Additionally, the model is accompanied by a multilingual key card identifying 24 structures

Mounted on a base,

Dimensions : 55x38x15 cm

Weight : 2000 g.

ESB50499SP





Animal Cell Model, 20000 Times Enlarged

Animal cell Model has been magnified 2000 times, mounted on board

Size : 33*47*17cm

Net weight : 3000g

ESB50500

Animal Cell Model

The two piece animal cell model shows the form and structure of a typical animal cell as viewed by an electron microscope. All important organelles are shown in raised relief and displayed in colour. Features included are:

- Nucleus
 - Mitochondrion
 - Smooth
 - Endoplasmic Reticulum (ER)
 - Rough Endoplasmic Reticulum (ER)
 - Basal membrane
 - Collagen fibres
 - Golgi apparatus
 - Microvilli
 - Lysosome
- Dimensions : 21x11x31 cm



ESB50499



Frog Model

Enlarged to 3 times life size, this model offers a precise depiction of the frog's morphology. The ventral part is exposed, allowing for a detailed examination of the internal anatomy. Removable components consist of the heart, lungs, liver, stomach, and intestine. The accompanying multilingual key card identifies more than 15 structures for reference

Dimensions : 39*22*17cm

Weight : 1500g

ESB50501

Frog Embryology Set

Five models showing near median sections through the egg during development from early gastrula to neurula. Features shown include dorsal lip, blastophore, blastocoel, rudimentary gut and CNS. The models are 10cm high on the pedestal.

ESB50503



Frog Dissection

Model showing dissectable structure of frog. Mounted on board. Numbered with English Key card.

ESB50502



Simulated Frog Dissection Kit

- Authentically detailed frog body
- Removable texture organs
- Cross sections show muscle structure

ESB50622



Life Cycle Of Frog - PE

The Frog life cycle epoxy resin block is the perfect tool for teaching pupils about the life cycle of the Frog. Includes : (eggs (spawn), subsequent stages of tadpole development: immediately after hatching, with external gills, and then with internal gills, the tadpole after developing its hind limbs and then also its forelimbs, young frog with a short tail, adult frog) The block is made of epoxy resin so it will not break even if it is accidentally dropped.
Block Size :140*64*18 (±2)



ESB50507/5



ESB50507/R



ESB50507



ESB50507/4

Life Cycle Of Frog Set - PE

Specimens consist of: Egg (Block Size: 32mm x 58mm x 17mm) - Tadpole (Block Size: 32mm x 58mm x 17mm) - Tadpole with hind legs (Block Size: 32mm x 58mm x 17mm) - Tadpole with limbs (Block Size: 32mm x 58mm x 17mm) - Tadpole with contraction tail (Block Size: 32mm x 58mm x 17mm) - Froglet (Block Size: 32mm x 58mm x 17mm) - Adult Frog (Block Size: 72mm x 72mm x 22mm)

All specimens are contained in high quality acrylic blocks. Made of durable acrylic plastic. Includes a real specimen of each of the life cycle stages. A great learning tool for kids or adults. Stored in a foam display insert. Display case measures: 250 x 177 x 40mm

ESB50507 ST



Life Cycle Of Cabbage Butterfly - PE

The butterfly life cycle epoxy resin block is the perfect tool for teaching pupils about the life cycle of the butterfly. From egg to caterpillar and then to chrysalis and finally to an adult butterfly, see all of the details up close. Includes : (eggs laid on a leaf, larva (caterpillar), chrysalis, mature male butterfly, mature female butterfly, host) The block is made of epoxy resin so it will not break even if it is accidentally dropped.

Block Size : 140*64*18 (±2)



ESB50508



ESB50508/4



ESB50508/R

Life Cycle Of Cabbage Butterfly 4 Stages - PE

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Includes Eggs - larva (caterpillar) - pupa - perfect insect - imago (butterfly); clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :110*43*20(±2)

ESB50508/4

Life Cycle Of Cabbage Butterfly Round- PE

ESB50508/R

Life Cycle Of Cabbage Butterfly Set - PE

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes Eggs, chrysalis, caterpillar, Butterfly; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size : Eggs, chrysalis, caterpillar: L 7.5cm x W 4cm Butterfly : L 7.5cm x W 7.5cm

ESB50508ST





Life Cycle Of Butterfly I - PE

The butterfly life cycle epoxy resin block is the perfect tool for teaching pupils about the life cycle of the butterfly. From egg to caterpillar and then to chrysalis and finally to an adult butterfly, see all of the details up close.

The block is made of epoxy resin so it will not break even if it is accidentally dropped.

Block Size :164*78*20 (±2)

ESB50509

Life Cycle Of Butterfly II - PE

The butterfly life cycle epoxy resin block is the perfect tool for teaching pupils about the life cycle of the butterfly. From egg to caterpillar and then to chrysalis and finally to an adult butterfly, see all of the details up close. The block is made of epoxy resin so it will not break even if it is accidentally dropped.

Block Size :164*78*20 (±2)



ESB50510

ESB50510



Ø 95*20 mm

ESB50510/R

Life Cycle Of Butterfly Set - PE

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes Eggs, chrysalis, caterpillar, Butterfly ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size : Eggs, chrysalis, caterpillar: L 7.5cm x W 4cm Butterfly: L 7.5cm x W 7.5cm

ESB50510/ST



Ø 95*20 mm

ESB50511/R



ESB50511/4



ESB50511/4

Life Cycle Of Grasshopper - PE

See the full life cycle of a Grasshopper in this 9 stage development specimen Include :Egg, 1st Instar, 2nd Instar, 3rd Instar, 4th Instar, 5th Instar, Male Adult, Female Adult, Rice Leaf. . The real life grasshoppers are encased in break proof epoxy resin. Block Size :164*78*20 (±2)

ESB50511

Life Cycle Of Grasshopper 4 Stage – PE

ESB50511/4

Life Cycle Of Grasshopper Round - PE

ESB50511/R

Life Cycle Of Grasshopper Set - PE

See the full life cycle of a Grasshopper in this 5 stage development specimen. The real life grasshoppers are encased in break proof epoxy resin.

ESB50511ST



Life Cycle Of House Fly

Specimen of house fly life cycle stages

ESB50504



Life Cycle Of Mosquito

Specimen of mosquito life cycle stages

ESB50505



Life Cycle Of Silk Worm

Specimen of silk worm life cycle stages

ESB50506



Life Cycle Of Honey Bee - PE

Shows the full life cycle of a Honey Bee, from the egg right through to the full sized bee, including Includes : eggs, larva, pupa, 3 versions of an adult bee: queen, worker, drone, fragment of an empty patch, a patch filled with bee bread, i.e. a mixture of pollen, honey and nectar, queen cell - a characteristic cell in which the queen matures, beeswax, vial with liquid honey.). Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :140*64*18 (±2)

Life Cycle Of Honey Bee 5 Stage - PE

Life Cycle Of Honey Bee Round - PE

ESB50512

ESB50512/5

ESB50512/R



ESB50512/R



ESB50512



ESB50512/5



Life Cycle Of Honey Bee Set - PE

Shows the full life cycle of a Honey Bee, from the egg right through to the full sized bee, including honey, pollen and beeswax. Each stage is clearly displayed and encased in break proof epoxy resin.

ESB50512ST

Life Cycle Of Silkworm - PE

Shows the full life cycle of silkworm, from the egg right through to the full sized silkworm Includes : (eggs, larvae immediately after hatching, subsequent stages of caterpillar development (after the 2nd, 3rd and 4th molting), caterpillar on a mulberry leaf, cocoon, chrysalis, adults, male and female, silk, silk fabric.). Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :140*64*18(±2)

Life Cycle Of Silkworm 4 Stage - PE

Life Cycle Of Silkworm Round - PE

Life Cycle Of Silkworm 13 Stage - PE

ESB50513

ESB50513/4

ESB50513/R

ESB50513/13



ESB50513/13



ESB50513



ESB50513/R



ESB50513/4



Life Cycle Of Silkworm Set - PE

Shows the full life cycle of silkworm, Includes : (Eggs Larvae (silkworms) on a leaf Nymph and cocoon Adult butterfly Silk samples) from the egg right through to the full sized silkworm. Each stage is clearly displayed and encased in break proof epoxy resin. Size : 225 x 185 x 45 mm

ESB50513ST

Life Cycle Of Dragon fly - PE

Shows the full life cycle of a Dragonfly, from the egg right through to the full sized Dragonfly Includes : (Egg Nymph 1 Nymph 2 Adult (male) Adult (female)). Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :164*78*20 (±2)

Life Cycle Of Dragon fly 4 Stage - PE

Life Cycle Of Dragon fly Round - PE

ESB50514

ESB50514/4

ESB50514/R



ESB50514



ESB50514/4



ESB50514/R





Life Cycle Of Dragon fly Set - PE

Shows the full life cycle of a Dragonfly includes : (Eggs Young larva Advanced larva Dragonfly) from the egg right through to the full sized Dragonfly. Each stage is clearly displayed and encased in break proof epoxy resin.

Size :225 x 185 x 45 mm

ESB50514ST

Life Cycle Of Cicada - PE

Shows the full life cycle of a Cicada, from the egg right through to the full sized Cicada Include : (Eggs - Nymph - Periostracum Cicadae - Hulled Cicadae - Female Adult - Female Adult - Branch with eggs).Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :164*78*24 (±2)



ESB50515



Life Cycle Of Cockroach - PE

Shows the full life cycle of a Cockroach, from the egg right through to the full sized Cockroach. Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :140*64*20 (±2)

ESB50516

Life Cycle Of Firefly - PE

Shows the full life cycle of Firefly, from the egg, Nymph 1, Nymph, Pupa, Adult full sized Firefly. Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :88*58*18 (±2)



ESB50894



Life Cycle Of Housefly - PE

Shows the full life cycle of a Housefly, from egg to larva, pupa, and adults housefly. Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size : 88*58*18 (±2)

ESB50517

Life Cycle Of Damselfly - PE

Shows the full life cycle of a Damselfly, from egg, larva, pupa to adult full sized Damselfly. Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :164*78*20 (±2)

ESB50518



Life Cycle Of Mosquito - PE

Shows the full life cycle of a Mosquito, from the egg right through to the full sized Check. Each stage is clearly displayed and encased in break proof epoxy resin.

Block Size :73*41*15 (±2)

ESB50895



Life Cycle Of Mantis - PE

Shows the full life cycle of Mantis, from the egg right through to the full sized Mantis. Each stage is clearly displayed and encased in break proof epoxy resin.
Block Size :164*78*24 (±2)



ESB50519

**Life Cycle Of Insects Collection Set - PE**

Shows the full life cycle of 12 different insects, from the egg right through to the full sized Each stage is clearly displayed and encased in break proof epoxy resin. Includes : (butterfly I, cabbage butterfly, grasshopper, silkworm, dragonfly, cockroach, housefly, mantis, honeybee, cicada, silkworm and mosquito)

ESB50522

Life Cycle Of Crab - PE

Shows the full life cycle of a Crab, from baby right through to the full sized Scorpion. Each stage is clearly displayed and encased in break proof epoxy resin.

**Life Cycle Of Scorpion - PE**

Shows the full life cycle of a Scorpion, from baby right through to the full sized Scorpion. Each stage is clearly displayed and encased in break proof epoxy resin.
Block Size :164*78*20 (±2)

ESB50893



Φ 95*20 mm

Life Cycle of Turtle Set - PE

This real 27 different type of insects has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50892

**Life Cycle Of Chick Development - PE**

Shows the full life cycle of a Chick, from the egg right through to the full sized Check. Each stage is clearly displayed and encased in break proof epoxy resin.
Block Size :177*125*65 (±5)

ESB50521

**Scorpion Specimen**

It has been embedded in Transparent Epoxy Resin Block for observation and study.
Specimen Includes Scorpion Specimen ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.
Block Size :88*58*18 (±2)

ESB50579

**Water Snake - PE**

This real Water snake has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20(±2)

ESB50549





Specimen Conformation Of Grasshopper - PE

This real Grasshopper has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 88*58*24 (±2)

ESB50573



ESB50580/I

Specimen Of Spider I - PE

This real Spider has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 75*75*24 (±2)



Specimen Of Spider II - PE

This real Spider has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 135*90*35 (±2)

ESB50580/II

Specimen Of Spider III - PE

This real Spider has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 75*75*24 (±2)

ESB50580/III



Specimen Of Spider & Scorpion Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Includes Scorpion Specimen ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :88*58*18 (±2)

ESB50581

Specimen Of Leaf Beetles 3 Kinds - PE

This real Kinds 3 Kinds of Leaf Beetles has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size :44*29*18(±1)

ESB50582





Specimen Of Chafer Beetle 3 kinds - PE

This real Specimens for 3 Kinds of of Chafer Beetle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :110*43*28 (±2)

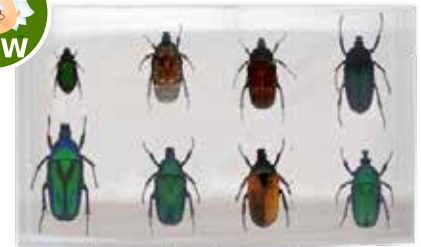
ESB50583/3



Specimen Of Chafer Beetle 2 Kinds - PE

This real Specimens for 2 Kinds of of Chafer Beetle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :73*41*20 (±2)

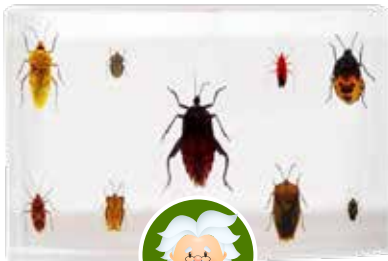
ESB50583/2



Specimen Of Chafer Beetle 8 Kinds - PE

This real Specimens for 8 Kinds of Chafer Beetle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20 (±2)

ESB50583/8



Specimen Of Stinkbug 9 Kinds - PE

This real Specimens for 9 Kinds of Stinkbug has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20 (±2)

ESB50422

Specimen Of Stag Beetle 4 Types - PE

This real Specimens for 4 Kinds of Stag Beetle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :95*95*20 (±2)



ESB50423



Specimen Mimesis Of Stick Insect - PE

This real Mimesis of Stick Insect has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*18 (±2)

ESB50565

Specimen Of Centipede and Millipede - PE

This real Centipede Millipede has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 140*64*18 (±2)

ESB50570





Arthropod Representatives - PE

This real Arthropod Representatives Includes : (isopod, Scorpio, locust, spider, prawn, millipede) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size : 164*78*20 (±2)

ESB50536



Specimen Of Butterflies Types Set - PE

This real different type of Butterflies Includes : (Polyura Narcaea , Graphium Sarpedon ,Pathysa Nomius Esper,Danaus Genutia) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50424



Specimen Comparison Of Moth and Butterfly - PE

This real Moth and Butterfly has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 164*78*20 (±2)

ESB50535

Specimen Of Insects Pupae I - PE

This real different type of Insects Pupae Free include : (Pupa Obtecta Pupa Coarctate Pupa) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 88*58*18 (±2)



ESB50543



Specimen Of Insects Pupae II - PE

This real different type of Insects Pupae include : (Pupa Obtecta Pupa Coarctate Pupa) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 73*41*15 (±2)

ESB50544

Specimen Of Insect Legs I - PE

This real different type of insects legs includes : (treadmill, clingy, flowing, funeral, crotch (for collecting pollen), lively, prehensile) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :88*58*18 (±2)



ESB50538



Specimen Of Insect Wings Types - PE

This real different type of insects wings Includes : (hymenoptera, wing cover, the first hardened wing, example of wings in dipterans, cover leaf) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :73*41*15 (±2)

ESB50540



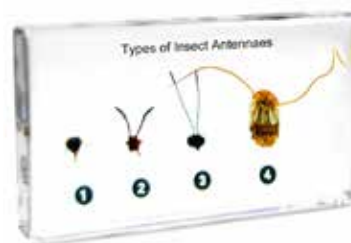


Specimen Of Insect Legs Types II - PE

This real different type of Insect Legs has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 73*41*15 (±2)

ESB50539



Specimen Of Insect Antennae's Types - PE

This real different Types of Insect Antennae's includes : (feathery, geniculate, coryneforme, filamentous, bristly) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :73*41*15 (±2)

ESB50542

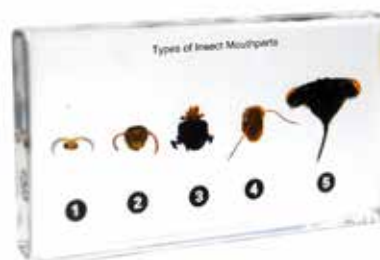


Specimen Of Insect Collection - PE

This real different type of Insect collection includes : (ant, ladybird, honey bee, beetle, bug, locust, wasp) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 164*78*20 (±2)

ESB50572



Specimen Of Insect Mouthparts Types - PE

This real different Types of Insect Mouthparts includes : (biting and licking, piercing-sucking, sucking, pungent) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :73*41*15 (±2)

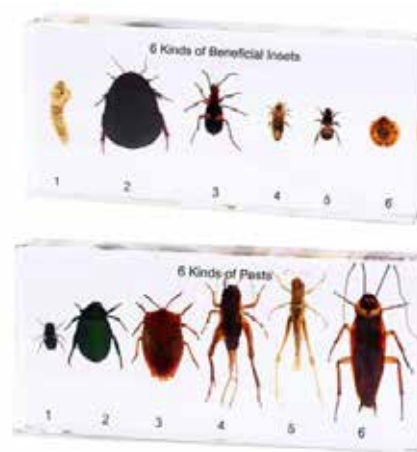
ESB50541



Specimen Of Harmful Insects Set - PE

This real 6 different type of Harmful insects includes : (Fly- Chafer - Lychee Stink Bug - Cricket - Cockroach - Grasshopper) has been embedded in one block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*18(±2)

ESB50528



Specimen Of Beneficial & Pest - PE

This real different type of Beneficial Insects Includes : (Silkworm Multi-eating beetle Ground beetle Skylight Bee Ladybird- & pests : Fly- Chafer - Lychee Stink Bug - Cricket - Cockroach - Grasshopper) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*18 (±2) x2

ESB50529



Specimen Of Pest Sets - PE

This real 10 different type of pests includes : (Fly- Chafer - Lychee Stink Bug - Cricket - Cockroach – Grasshopper – Beetle- Bamboo Weevil - Mole Cricket - Stag Beetle) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50530



Specimen Of Beneficial Insects 10 Kinds - PE

This real 10 different type of Beneficial Insects includes : (dragonfly -mantis - silkworm - dung beetle - ladybug - water beetle - three-leaf - honey bee - wasp - Mayfly beetle - box closed with magnesium) has been embedded in one block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped

ESB50527/10



Specimen Of Beneficial Insects Set - PE

This real 6 different type of Beneficial Insects includes : Silkworm Multi-eating beetle Ground beetle Skylight Bee Ladybird has been embedded in one block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 140*64*18(±2)

ESB50527



ESB50425

Specimen Of Insects Classification Set – PE

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Includes 25 different insects Specimen ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.



Specimen Of Insects Set I - PE

This real 10 different type of insects includes : (Cicada, fly, bee, cockchafer, cockroach, dragonfly, butterfly, bug, praying mantis and locust). Has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50531

Specimen Of Insects Specimens Set II - PE

This real 16 different type of insects includes: (Chafer Beetle - Praying Mantis - Giant Hornet Wasp - Ant - Common Tiger Butterfly - Long Horned beetle - Cicada - Shield Bug - Spider - Dragonfly - Cricket - Cockroach - Walking Stick - Onion Fly - Silkworm Life Cycle - and Grasshopper Life Cycle) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50532



Specimen Of Insects Specimens Set III - PE

This real 27 different type of insects Includes : (Chafer beetle Lady bug Mole cricket Praying mantis Paper wasp Asiatic honey bee Ant Dung beetle Rhinoceros beetles Monarch Long horned beetle Cicada Shield bug Wesp spin Spider Dragonfly Cricket Australian cockroach Scorpion Centipede Walking stick Onion fly Chinese white shrimp Silkworm Crab Star fish Grasshopper Stag beetle) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50533



Specimen Of Insects Set IV - PE

This real 30 different type of insects Include : (Spider - Shrimp - Mulberry silkworm - Crab - Cricket - Cockroach -A beetle from the stag beetle family - Fly -A beetle from the longhorn beetle family - citrus longhorn beetle - Beetle-shaped beetle - Ant - Ground beetle - Beetle - Asian turquoise - Scorpion - Bug bug - Cicada - Dragonfly - Beetle; Bornean rhinoceros -Beetle, cowpea beetle - Hornet - Klecanka; wasp family - Butterfly - Honey bee - Locust - Weevil beetle - Elephant weevil beetle - Ladybug - Beetle, puddle beetle - Beetle-shaped beetlehas been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Size : 42x7x34 cm

ESB50534

**Specimen of Chafer Beetles Kinds Set - PE**

This real different type of Chafer Beetles has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50583/ST

**Specimen Of Spiders Types Set - PE**

This real different type of Spiders Includes : (Argiope bruennichi - Araneus ventricosus - Gasteracantha sauteri - Selenocosmia huwena) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 32*58*17mm X (3) + 72*72*22mm X (1)

ESB50580/ST

**Specimen Of Stag Beetles Types Set - PE**

This real different type of Stag Beetles has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50423/ST

Specimen Of Animal Kingdom Set I - PE

This real 27 different type of animals Includes : (butterfly-Dragonfly-mantis-Bat-butterfly-centipede-cockroach-cicada-turtle-dungbeetle-cricket-stage beetle-fish-housefly-Ant-ladybug-honeybee-crab-conch-starfish-shrimp-shell-spider-earthworm-grasshopper-chafer-scorpion) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50523

**Specimen Of Animal Kingdom Set II - PE**

This real 20 different type of animals include: Leech -Cuttlefish - Spider - Centipede - Crab - Long- horned beetle - Cricket - Cockroach - Wasp - Stink Bug- Cicada - Praying Mantis - Butterfly - Dragonfly - Walking Stick - Swordtail Fish - Frog - turtle - Bird - Bat) his set includes a Detailed Information Card and an Educational Booklet characterizing each one of these species. Size of product is 18 3/4 x 13 3/4 x 2 1/2 in. has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50524



Specimen of Animal Classification Set - PE

This real different type of animals Classification has been embedded in block for observation and study. Durable clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB5042



Specimen of Animal Evolution Set - PE

This real different type of animals includes : (Cnidaria, Platyhelminthes, Nematoda, Annelida, Mollusca, Arthropoda, and Chordata. The species are: Turtle - Leech- Tiger Barb - Toad - Paramecium - Sea Anemone - Cuttlefish - Scorpion - Mouse - Tapeworm - Roundworm - and a Bird) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Set includes 12 pcs

ESB50525



Specimen of Marine Animal Set - PE

this real 8 different type of Marine animals includes : (pagurid ([hermit crab in shell] Coenobita rugosus), spiral shell , lobster , starfish , cuttlefish , fiddler crab , sea anemone (, and clam) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50526/8



Specimen Of Marine Animal Types Set- PE

This real 11 different type of Marine Animal includes : (squid, octopus, starfish, fish - Selenotok vulgaris, mussel, sea anemone, seahorse, crabs: paguridae, uca crassipes, mictyris longicarpus, pyrhila pisum) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50526/11



Specimen of Tropical Fishes Types Set - PE

This real different type of Tropical Fishes has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50427



Specimen of Poisonous Animal Types Set - PE

This real different type of Poisonous Animal has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50428



Specimen of Lizard Dissection - PE

This real Dissected Lizard has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 190*100*32 (±5)

ESB50555

**Specimen of Rabbit Dissection - PE**

This real Dissected Rabbit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 250*105*55 (±5)

ESB50556

**Specimen of Rat Dissection - PE**

this real Dissected Rat has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 200*90*40 (±5)

ESB50557

**Specimen of Marine Clam Dissection - PE**

This real Dissected Marine Clam has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 135*90*35 (±2)

ESB50558

**Specimen of Squid Dissection - PE**

This real Dissected squid has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 220*105*30 (±5)

ESB50559

**Specimen of Fish Dissection - PE**

This real dissected fish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 190*100*32 (±5)

ESB50552

**Specimen of Pigeon Dissection - PE**

This real dissected Pigeon has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 250*105*55 (±5)

ESB50553

**Specimen of Frog Dissection - PE**

This real dissected frog has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 190*100*32 (±5)

ESB50554





Zebra Finch - PE

This real Zebra Finch has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :110*43*28 (±2)

ESB50431

Specimen of Rabbit - PE

This real Rabbit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :190*90*90(±5)



ESB50560



Specimen of White Mouse - PE

This real White Mouse has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size :110*43*28 (±2)

ESB50432



Specimen of Bat I - PE

This real bat has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :75*75*24 (±2)



ESB50566/I



Specimen of Bat II - PE

This real bat has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :135*90*35(±2)

ESB50566/II



Specimen of Bat III - PE

This real bat has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :200*90*40(±2)



ESB50566/III



Specimen of Bat IV - PE

This real bat has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :140*64*18 (±2)

ESB50566/IV



Comparative Hearts Of 5 Classes - PE

This real different type of Hearts has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50551

**Specimen Comparative Brains - PE**

Of 5 Classes

This real different type of Brain Includes : (fish (Chinese carp), amphibian (frog), reptile (snake), bird (pigeon), mammal (rabbit)) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*24 (±2) .

ESB50550

Specimen Digestive, Excretory and Reproductive Systems of Toad - PE

This real dissected Digestive, Excretory and Reproductive Systems of Toad has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped Block Size :190*100*30 (±5)

ESB50411

**Specimen Nervous System of Rabbit - PE**

This real Nervous System of Rabbit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped Block Size :190*100*30 (±5)

ESB50412

**Specimen Digestive System of Rabbit - PE**

This real Digestive System of Rabbit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped Block Size :190*100*30 (±5)

ESB50413

**Specimen Reproductive System of Rabbit - PE**

This real Reproductive System of Rabbit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped Block Size :190*100*30 (±5)

ESB50414

**Specimen Disassembly of Spade Beetle - PE**

This real Disassembly of Spade Beetle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped Block Size :135*90*24 (±2)

ESB50415





Specimen of Leech - PE

This real Leech has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 73*41*20(±2)

ESB50435

Specimen of Earthworm - PE

This real type of Earthworm has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20 (±2)



ESB50436



ESB50547

Specimen of Roundworm - PE

This real Roundworm has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20 (±2)

ESB50547



ESB50547F



ESB50547M

Roundworm Male - PE
Roundworm Female - PE

ESB50547M

ESB50547F

Specimen of Neries - PE

This real Neries has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB50568



Specimen of Pork Tapeworm Parasite Cysticercus,- PE

This real Pork tapeworm has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 88*58*18 (±2)

ESB50563

Specimen of Annelid Representatives - PE

This real different type of Annelid Representatives Includes (Platyhelminthes, Nematoda, and Annelida) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*20 (±2)

ESB50537



Specimen of Schistosoma - PE

This real Red Swamp Schistosoma has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 60*35*20(±2) .

ESB50437



Specimen Of Frog - PE

This real Frog has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :75*75*26(±2) .

**Specimen Of Toad - PE**

This real TOAD has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 75*75*26 (±2) .



ESB50438

**Specimen Of Turtle I - PE**

This real Turtle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :73*41*24 (±2)

**Specimen Of Turtle II - PE**

This real Turtle has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :75*75*30(±2)



ESB50548

ESB50439/I

ESB50439/II

Specimen Of Soldier Crab - PE

This real Soldier Crab has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :88*58*24 (±2) .

**Specimen Of Soldier Crab and Mutualist - PE**

This real Soldier Crab and Mutualist has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :88*58*24(±2) .



ESB50545

ESB50546

Specimen of Fiddler Crab Conformation, Conformation - PE

This real Conformation of Fiddler Crab has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :73*41*24 (±2)



ESB50891

Specimen of Crabs Types Set- PE

This real different type of Crabs has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50440





Specimen Of Freshwater Mussel - PE

This real fresh water mussel has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 75*75*26 (±2)

ESB50567

Specimen Of Sea Urchin -PE

his real sea Urchin has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 73*41*24 (±2)

ESB50571



Coral - PE

This real Coral Simulation has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB50569

Specimen Of Sea Anemone - PE

This real sea Urchin has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 73*41*24 (±2)

ESB50561



Specimen Of Simulated Seahorse - PE

This real Simulated Seahorse has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size 73*41*24 (±2)

ESB50441

Specimen Of Sea cucumber- PE

This real Red Swamp Crayfish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :88*58*20 (±2)

ESB50442



Specimen Of Sponge- PE

This real Sponge has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :73*41*24 (±2)

ESB50443



Specimen Of Cuttlefish- PE

This real Cuttlefish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size : 73*41*24(±2)



ESB50564

**Specimen Of Jellyfish- PE**

This real Jellyfish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size 75*75*15 (±2)

ESB50562

Specimen Of Invertebrates- PE

This real 7 Different Invertebrates Includes : (earthworm- Shrimps- Squid-starfish-grasshopper-Cancer-anemonehas) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :164*78*24(±2)



ESB50445

**Specimen Conformation Of Octopus - PE**

This real Octopus has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :75*75*24 (±2)

ESB50575

Specimen Of Octopus I - PE

This real Octopus has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :75*75*24(±2)



ESB50575/I

**Specimen Of Octopus II - PE**

This real Octopus has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :95*95*30(±2)

ESB50575/II



ESB50444/I

Specimen Of Red Swamp Crayfish I - PE

This real Red Swamp Crayfish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :110*43*28 (±2)

**Specimen Of Red Swamp Crayfish II - PE**

This real Red Swamp Crayfish has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :135*90*35(±2)

ESB50444/II





Specimen Conformation Of Lobster PE

This real Lobster has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.
Block Size :110*43*28 (±2)

ESB50574



ESB50446

Specimen Of Mantis Shrimp-PE

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Include Mantis Shrimp; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*24 (±2)



Specimen Of Shrimp-PE

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Include Shrimp; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*24 (±2)

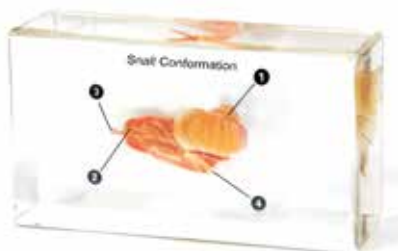
ESB50458



Specimen Of Prawn- PE

This real Prawn has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :140*64*18 (±2)

ESB50434



Specimen Of Snail Conformation - PE

This real Snail has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :73*41*24 (±2)

ESB50576

Specimen Of Carp Conformation - PE

This real Carp has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*24 (±2)

ESB50577

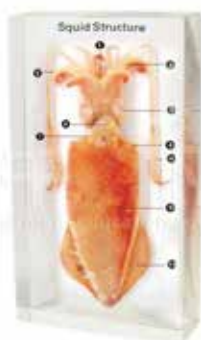


Specimen Of Squid Conformation - PE

This real Squid has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size :164*78*24 (±2)

ESB50578



Lizard Skeleton - PE

This real Turtle skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 164*78*24 (±2)



ESB50584

**Turtle Skeleton - PE**

This real Turtle skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 135*90*35 (±2)

ESB50585

Bat Skeleton - PE

This real Bat skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 135*90*24 (±2)



ESB50586

**Bird Skeleton - PE**

This real Bird skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin block will not break even if it is accidentally dropped.

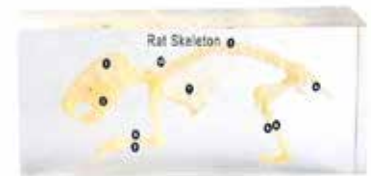
Block Size : 135*90*24 (±2)

ESB50587

Rat Skeleton - PE

This real Rat skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 200*90*40 (±5)



ESB50588

**Rabbit Skeleton - PE**

This real rabbit skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin Block will not break even if it is accidentally dropped.

Block Size : 200*90*40 (±5)

ESB50589

Toad Skeleton - PE

This real toad skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card.

Epoxy resin block will not break even if it is accidentally dropped. Due to nature of the product it may differ slightly from the image shown. Includes information cards.

Block Size : 135*90*35 (±5)

ESB50590





Fish (Crucian) Skeleton - PE

This crucian skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 200*90*40 (±5)

ESB50591



ESB50592

Snake (Non-Venomous) Skeleton, PE

This real Snake Skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 135*90*24 (±2)



Pigeon Skeleton, PE

This pigeon skeleton has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Key features have been labelled and identified on an information card. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 177*125*65 (±5)

ESB50593

Skull, Cat

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive base that features a removable epoxy resin cover.



ESB50594



Skeleton, Chicken

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50596

Skull Comparison Of Rabbit, Pigeon, Turtle, Toad, Fish

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive base that features a removable epoxy resin cover.



ESB50595



Skeleton Of Lizard

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50597

Bat Skeleton

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover. Block Size : 140*64*20 (±2)



ESB50598



Skeleton Of Toad

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50599



Skeleton Of Pigeon

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50600



Skeleton Of Rabbit

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50601



Skeleton Of Snake

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover. Block Size :110*44*28 (±2)

ESB50602

Skeleton Of Fish (Crucian)

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50603



Vertebra Comparison Of Rabbit, Pigeon, Turtle, Toad, Fish.

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50604

Forelimb Comparison Of Rabbit, Pigeon, Turtle, Toad, Fish.

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50605



Hind Leg Comparison Of Rabbit, Pigeon, Turtle, Toad, Fish.

This natural bone skeleton has been meticulously prepared and mounted in a natural position. Enclosed key card identifies various bone structures. The specimen is mounted on an attractive wooden base that features a removable epoxy resin cover.

ESB50606





Rabbit Dissected In Formalin

This real rabbit specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50612



Snake Dissected In Formalin

This real snake specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50613



Frog Dissected In Formalin

This real frog specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50614



Lizard Dissected In Formalin

This real lizard specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50615



Pigeon Dissected In Formalin

This real pigeon specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50616



Toad Dissected In Formalin

This real toad specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50618



Fish (Crucian) Dissected In Formalin

This real crucian specimen dissected and reserved in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50617



Grass-frog Developmental Stages Dissected In Formalin

This real Grass frog Developments in clear container filled with formalin , Key features have been labelled and identified on an information card.

ESB50619





Dissecting Tray

Dissecting Tray

Material: Stainless Steel Complete with 10mm paraffin wax filler

Size: 280 x 190 x 50 mm

ESB50626



Dissecting Pan With Pad And Cover

The pads are reusable and there is no need to melt sticky wax

The cover closes up for the day, it is excellent for large specimens (starfish, bullfrogs)

Size: 31 x 22.5 cm

ESB50627



Dissecting Scissor Fine Point 110 mm

Stainless steel, open shanks. 110mm. EACH.

ESB50630



Dissecting Scissor Blunt Ends 125 mm

Stainless steel, closed shanks. Overall length: 125mm. EACH.

ESB50628

Dissecting Scissor Blunt Ends 150 mm

Stainless steel, open shanks. 130mm. EACH.

ESB50629

Dissecting Kit

Stainless steel instruments in leather case consist of the following:

preparation needle, 130 mm long, pointed end.

preparation needle 130 mm long pointed curved end.

scalpel handle 140 mm long.

scalpel handle stainless 130mm, slotted to accept blades.

Ten scalpel sharp blades suitable for scalpel handle, 4 packed in quick peel off aluminium foil.

One dissecting stainless scissors, fine pointed ends, 110 mm long.

One dissecting stainless scissors, sharp/blunt ends, 113 mm long.

One forceps, pointed ends with plastic slip cover, 110mm long.

One forceps, blunt ends with plastic slip cover, 130 mm long.

Brush



ESB50631



Dissecting set Basic

Designed for elementary, junior, and senior high school students. Kit contains the following:

Semitransparent hinged case with snap cover and insert for the seven instruments. Attractive and reusable.

6 in. chrome replacement blade scalpel

4-1/2 in. stainless steel dissecting scissors

4-1/2 in. chrome-plated forceps

Straight dissecting needle

Bent dissecting needle

Pipette

6 in. ruler

ESB50632



**Forceps Disposable , Plastic Pk/10**

Blunt-end forceps of glass-filled nylon, serrated at tips with finger-grips along the shaft. Ideally suited to microbiology work where they may be destroyed after use. Length: 125mm (Colour may vary). Pack of 10.

ESB50634

**Insert Needle Wooden Handle Pk/10**

Needle length: 33mm. Mounted in 100mm hardwood handle. Pack of 10.

ESB50638

**Scalpel Handle No 3**

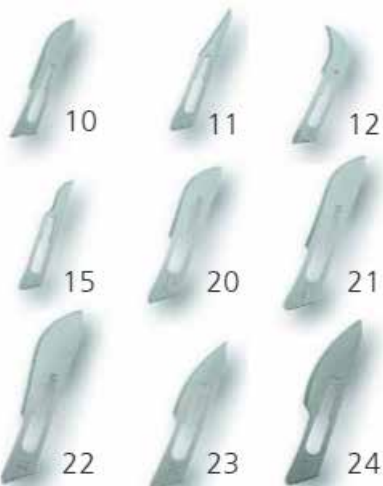
Strong nickel-alloy handle, handle No. 3. Length: 95 mm. EACH.

ESB50641

Scalpel Handle No 4

Strong nickel-alloy handle, handle No. 4. Length: 100 mm. EACH.

ESB50642

**Forceps Pointed Ends**

Stainless steel. Pointed tip Forceps,

130mm length. EACH

ESB50635

100mm length. EACH

ESB50636

130mm length. EACH

ESB50637

**Insert Needle St. Steel Handle**

Straight, stainless steel throughout. Needle length: 34mm. Handle length: 95mm. EACH.

ESB50639

**Scalpel 130 mm**

St. Steel length 130 mm handle with blade.

ESB50640

Scalpel Blades

Surgical-quality steel blades for use with the Scalpel Handles

Cat. No	Size	No
ESB50643	3	10 Pk/3
ESB50644	3	11 Pk/5
ESB50645	4	21 Pk/5
ESB50646	4	22 Pk/5
ESB50647	4	23 Pk/5
ESB50648	4	24 Pk/5



Protozoa

Our high quality protozoa and algae are sold in jar sizes for your convenience. The small jar is approximately 30ml

- ESB50651 Amoeba proteus
- ESB50652 Chlamydomonas
- ESB50653 Colpidium
- ESB50654 Chilomonas
- ESB50655 Protozoa Mixed
- ESB50656 Ciliates Mixed
- ESB50657 Flagellates Mixed

Mixed cultures not suitable for sub culturing.

- ESB50658 Euglena gracilis
- ESB50659 Paramoecium
- ESB50660 Protozoan Pellets

- ESB50661 Protoslow



Ideal for feeding Paramoecium, Chilomonas and other protozoa. Add 1 pellet to 1 litre of previously boiled water, then divide culture into dishes of approx 150-200ml. Full instructions provided. pack of 25

A viscous solution used to slow mobile organisms making them easier to observe. Sold in an easy to use dropper bottle 30ml

Algae / Hydra / Platyhelminthes / Nematodes

Algae

- ESB50662 Alga gro Concentrate
- ESB50663 Anabena
- ESB50664 Mixed Algae
- ESB50665 Scenedesmus quadricauda
- ESB50666 Chlorella
- ESB50667 Chara/ Nitella
- ESB50668 Spirogyra Vegetative
- ESB50669 Dunaliella
- ESB50670 Volvox

For both fresh water and sea water, producing an almost universal algal medium. Each tube makes one litre of medium. 20 ML

for making algae balls) Starter culture

per bag



Coelenterates

- ESB50671 Hydra
- ESB50672 Hydra Viridissima
- ESB50673 Hydra Vulgaris

Our choice of species per 10

Green Hydra per 10

Brown Hydra per 10

Nematodes

- ESB50674 Vinegar Eel

Anguilla Aceti

Platyhelminthes

- ESB50675 Planarian Species
- ESB50676 Polycelis
- ESB50677 Dugesia

per 10

per 10

Large brown species per 10



Locusts

High quality locusts selectively bred for study in the classroom. Locusts are an easy insect to maintain from 1st instar through to adult, feeding on fresh grass twice a day. Feed on lettuce, apple and carrot if grass is not available.

Schistocerca

- ESB50678 Desert Locust
- ESB50679 5th Instar
- ESB50680 5th Instar
- ESB50681 5th Instar
- ESB50682 4th Instar Mixed
- ESB50683 Mixed Instars
- ESB50684 Hoppers

Adult. Schistocerca pack of 10

Male. Schistocerca pack of 10

Female. Schistocerca pack of 10

Mixed. Schistocerca pack of 10

Schistocerca pack of 10

Schistocerca pack of 10

Schistocerca pack of 30



Insects and Worms for Feeding

Crickets An easily maintained & ideal food for a variety of lizards and frogs.

ESB50685 Medium Sized pack of 100

ESB50686 Cricket Adults pack of 100

ESB50687 Cricket Hatchlings pack of 500

ESB50688 Wax Moth Larvae A culture of larvae, excellent for feeding to reptiles and amphibians. pack of 25-30

ESB50689 Dendrobena Small worm, ideal for feeding. pack of 100

Black Crickets

ESB50690 Gryllus Adults and large nymphs pack of 70

ESB50691 Adult males pack of 70

ESB50692 Adult females pack of 70

ESB50693 Tenebrio Culture «A typical beetle to use as an example of an insect life history. Easily kept on bran & fruit. Contains all the stages per culture

ESB50694 Mealworm Larvae Tenebrio per 50g

ESB50695 Mealworm Beetles Tenebrio. Enquire for availability. Pk/10

Drosophila - Fruit Flies (Melanogaster)

Drosophila are sold in living cultures, each containing approximately 30 specimens of each stage; Adult, Pupae, Larvae and Eggs.

The chromosomal position of the different characteristics are shown in brackets after each strain. Vestigial wing are a popular food source for spiders, small praying mantis and other invertebrates

Segregated flies

Please enquire for availability of Virgin Female Drosophila. There may be a delay during busy periods. Segregated Males can be supplied within 5 days. Both are supplied in packs of 30. Segregated flies must be sent by a recorded delivery.

Wild Type

ESB50697 Small culture

ESB50698 Large culture

ESB50699 Virgin fem

ESB50700 Male

ESB50701 Adults 100

Ebony Vestigial (3/2)

ESB50702 Small culture

ESB50703 Virgin fem

ESB50704 Male

Vestigial Wing (2)

ESB50705 Small culture

ESB50706 Large culture

ESB50707 Virgin fem

ESB50708 Male

ESB50709 Adults 100

Ebony Body (3)

ESB50710 Small culture

ESB50711 Virgin fem

ESB50712 Male

White Eyed (sex linked)

ESB50713 Small culture

ESB50714 Large culture

ESB50715 Virgin fem

ESB50716 Male

ESB50717 Adults 100



Scarlet Eyed (3)

- ESB50718 Small culture
 ESB50719 Virgin fem
 ESB50720 Male
 ESB50721 Drosophila Kit



Contains all the essential equipment and media to culture fruit flies. Contents: 25 small vials, bungs and ladders, 2 funnels, 2 brushes, 250g medium and a relaxing jar. Complete with instructions

- ESB50722 Fly Nap Kit

An easy to use anaesthetic for Drosophila. They can remain anaesthetized for up to 60 mins. The kit includes 10ml of Fly Nap, 12 wands and full instructions.

Butterflies

- ESB50723 Painted Lady Butterfly Kit

«Ten caterpillars supplied with sufficient nutrient for complete development. Kit includes a net cage (ACS 015) with full instructions. Individual pots, papers and lids. Available March to September per kit»

flies

Please check availability for all adult flies. All our maggots are the last stage before pupation.

- | | | |
|----------|---------------------|-------------------------|
| ESB50724 | Blowfly Maggots | Calliphora pk/100 |
| ESB50725 | Blowfly Pupae | Calliphora pk/100 |
| ESB50726 | Blowfly Adults | Calliphora pk/101 |
| ESB50727 | Greenbottle Maggots | Lucilia pk/100 |
| ESB50728 | Greenbottle Pupae | Lucilia pk/100 |
| ESB50729 | Greenbottle Adults | Lucilia pk/100 |
| ESB50730 | House Fly Pupae | Musca domesticae pk/100 |
| ESB50731 | House Fly Adults | Musca domesticae pk/100 |

**Cockroaches**

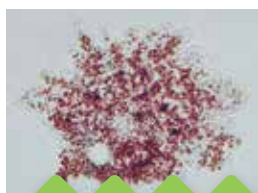
- | | | |
|----------|-----------------------|-------------------------|
| ESB50732 | Periplaneta Americana | Adult mixed sex PK/5 |
| ESB50733 | Periplaneta | Adult females PK/10 |
| ESB50734 | Periplaneta | Adult males PK/10 |
| ESB50735 | Periplaneta | Egg cases PK/10 |
| ESB50736 | Periplaneta | Nymphs PK/10 |
| ESB50737 | Blatta Orientals | Adults mixed sex PK/100 |

**Giant Cockroaches**

- | | | |
|----------|-----------------------------------|---|
| ESB50738 | Giant Hissing Cockroaches | A large forest floor species. Easily maintained and handled. Hisses when touched. Pack of 5 |
| ESB50739 | Giant Death Head Cockroach | Blaberus cranifer pack of 5 |
| ESB50740 | Giant Peruvian/Peppered Cockroach | Archimandrita tessellata pack of 5 |

Beetles and Land Invertebrates

- | | | |
|----------|--------------------|---|
| ESB50741 | Flour Beetles | Tribolium castanum. Wild type / Sooty |
| ESB50742 | per culture | |
| ESB50743 | 100 adults | |
| ESB50744 | Tribolium Confusum | Wild type , per culture |
| ESB50745 | Tribolium Confusum | Wild type , per 100 adults |
| ESB50746 | Larder Beetles | Dermesties. A medium sized beetle used in the laboratory for skeletal preparation. per culture» |
| ESB50747 | Seed Beetle | «Callosobruchus maculatus. Seed beetles feed on black eyed or mung beans, easy to maintain culture. Culture contains egg laden beans plus 20-25 adult beetles. per culture» |
| ESB50748 | Grain Weevil | Sitophilus. A large species of weevil that infest wheat, oats and barley. Useful for population growth experiments. per culture |



Land Invertebrates**ESB50749** Land Invertebrate Collection

An exciting display of ground dwelling mini beasts. This collection contains over 60 Specimens including Centipedes, Slugs, Spiders, Woodlice, Beetles etc. Plus a full colour name trail identity car , per pk»

Pk/10

ESB50750 Woodlice

Pardosa. Male - May / June. Female - May / Sept pk/10

ESB50751 Spiders

Pk/10

ESB50752 Spiders Mixed species

Pk/10

ESB50753 Beetles Land species

Pk/10

ESB50754 Millipedes Native species**ESB50755** Giant Millipedes adult

pk/10

ESB50756 Centipedes Native species**ESB50757** Red Ants *Myrmica rubra* (Apr-Oct.)

Per 100

ESB50758 Yellow Meadow Ants

Suitable for forming a temporary colony ,per 100

ESB50759 Black Ants *Lasius niger* (May-Sept)

Per 100

**Molluscs / Slugs****ESB50760** Giant African Snails

Achatina. Juvenile , per 5

ESB50761 Cuttlefish Bones

Pack of 3

ESB50762 Giant African Land Snail Kit

This kit contains 5 juvenile snails, 1 medium tank, cuttlefish bones and peat plus full instructions on how to care for them.

ESB50763 Garden Snail

Helix aspersa Pk/5

ESB50764 Mixed species of slugs

Pk/10 Please enquire about specific species. Slugs

**Ecotoxicology**

Beneficial Organisms Grassland and Aquatic

Many species are needed to comply with the EEC registration requirements. Listed below are the species available from stock or on a seasonal basis.

If you have a special requirement for unlisted specimens please enquire. Ecotoxicology items must be sent by courier or sp. del.

ESB50765 Gammarus pulex

2-3 Months, juvenile per 100

ESB50766 Gammarus pulex

Adult, Mixed sex per 100

ESB50767 Asellus

Adult, Mixed sex per 100

ESB50768 Crangonyx

Adult, Mixed sex per 100

ESB50769 Lumbriculus variegatus

Fresh water black worms per 100

ESB50770 Eisenia foetida foetida

300 - 600mg Sexually mature, hand selected per 100

ESB50771 Chironomous

Midge larvae, mature aquatic bloodworm per 100

ESB50772 Lemna minor

Lesser duckweed, cultured per 100g

**Annelids****ESB50773** Brandling Worm

«Hand selected mature worms, weighing between 300 - 600mg. Eisenia foetida foetida pk/100»

ESB50774 Brandling Worm

«Eisenia species. A small alternative to lumbricus. Easily bred. Supplied in a tub with medium. approx 30»

ESB50775 Dendrobena

Composter worms - 500g

ESB50776 Earthworms

Lumbricus terrestris. Mature lob worms each with clitellum , per 10

ESB50777 Brandling Worm Media

1 kg

Pond Life**ESB50778** Damselfly Nymphs

Demoiselle per 10

ESB50779 Mayfly Nymphs

Chloen per 10

ESB50780 Pond Skater

Gerris (May-Oct)per 10

ESB50781 Dragonfly

Nymph, mixed species per 5

ESB50782 Freshwater Blackworms

Lumbriculus variegatus approx 30

ESB50783 Water Beetles

each



- ESB50784 Water Boatman
- ESB50785 Lesser Water Boatman
- ESB50786 Water Louse
- ESB50787 Freshwater Shrimp
- ESB50788 Mosquito Larvae
- ESB50789 Mosquito Pupae
- ESB50790 Caddisfly
- ESB50791 Blood Worm

Leeches

- ESB50792 Pond Leeches

Pond Snails

- ESB50793 Pond Whelk
- ESB50794 Trapdoor Snail
- ESB50795 Pond Whelk
- ESB50796 Ramshorn Snails
- ESB50797 Mixed Pond Snails
- ESB50798 Freshwater Aquarium Collection

- ESB50799 Daphnia Water Fleas
- ESB50800 Daphnia Bulk Bag

Living Marine

- ESB50801 Brine Shrimp Kit

- ESB50802 Brine Shrimp Eggs

- ESB50803 Brine Shrimp Adult

- ESB50804 Dunaliella
- ESB50805 Microbial Culture
- ESB50806 Alga Gro
- ESB50807 Marine Tube Worm
- ESB50808 Anemone
- ESB50809 Prawns
- ESB50810 Seaweed
- ESB50811 Limpets
- ESB50812 Periwinkle
- ESB50813 Mussel
- ESB50814 Red Rag Worm
- ESB50815 Shore Crab

- Notonecta per 10
- Corixa per 10
- Asellus per 10
- Gammarus per 10
- Culex per 10
- Culex per 10
- Larvae, Sept - April per 10
- Chironomus per 10

- Mixed species per 10

- Lymnaea stagnalis per 10
- Viviparus viviparus per 10
- Lymnaea peregra per 10
- Planorbis corneus per 10
- This is a selection of snails per 10

A collection of pond life which consists of over 60 specimens. The collection includes: Planaria, Asellus, Gammarus, Daphnia etc. Plus a full colour name trail identity key card. The collection will vary at different times of the year. Used for a temporary class room setup. per bag c300

This bulk bag can be used to help clear algae from ponds.

This kit contains all the items needed to set up a brine shrimp culture. A full online PDF manual from the British Ecological Society can be found and downloaded by searching for 'Brine Shrimp Ecology' online. This kit is ideal for key stages 3 and 4 and the individual items can be replaced as and when needed. Brine shrimp egg cysts 60ml Liquid fertiliser 150ml Microbial culture 65ml Living culture Dunaliella 65ml Marine salt 50g Marine sand 250g

Artemia Franciscana. Brine shrimp eggs can lie in a dormant state for 10 years or more, waiting for the right environmental conditions and then spring into life to start their life cycle again. (Marine salt required). 60ml

Full grown shrimps feed on marine filter feeder diet. Available with 1 weeks notice.approx 30-50

Large culture

A sample of micro organism and algae from our own brine shrimp culture. 65ml 20ml

Pomatoceros. Supplied on stone. Used to demonstrate fertilisation. pack of 10

Actinia equina pack of 5

Leander pack of 10

Fucus species pack of 10

Patella pack of 10

Littorina pack of 10

Mytilus pack of 10

Nereis diversicolor pack of 100

Carcinus maenas. (Available May-Oct) pack of 100



PRESERVED

ESB50816	Locust
ESB50817	Millipede
ESB50818	Centipedes species
ESB50819	Woodlice species
ESB50820	Housefly
ESB50821	Blowfly Calliphora. Adult
ESB50822	Blowfly Calliphora Larvae
ESB50823	Blowfly Calliphora Pupae
ESB50824	Cockroach
ESB50825	Cockroach
ESB50826	Giant Cockroach
ESB50827	Spider Species
ESB50828	Scorpion Species
ESB50829	Butterfly Adult
ESB50830	Butterfly Larvae
ESB50831	Butterfly Pupae
ESB50832	Ants (Garden)
ESB50833	Beetles
ESB50834	Wasp
ESB50835	Mosquito Adult
ESB50836	Mosquito Larvae
ESB50837	Mosquito Pupae
ESB50838	Flea
ESB50839	Louse Species
ESB50840	Bed Bug Species
ESB50841	Aphids Species
ESB50842	Prawn
ESB50843	Shore Crab
ESB50844	Freshwater Shrimp
ESB50845	Crayfish
ESB50846	Marine Shrimp
ESB50847	Water Louse
ESB50848	Water Beetle

Molluscs

ESB50849	Garden Snail
ESB50850	Cuttlefish
ESB50851	Squid
ESB50852	Freshwater Mussel
ESB50853	Octopus Species
ESB50854	Sea Mussel Mytilus edulis

Coelenterates

ESB50855	Hydra
ESB50856	Jelly Fish
ESB50857	Sea Anemone

Poriferans

ESB50858	Marine Sponge Species
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Schistocerca adult pack of 10
Species pack of 10
Pack of 10
Pack of 10
Musca domesticae. Adult pack of 10
Pack of 10
Pack of 10
Periplaneta americana Pk/10
Blatta orientalis Pack of 10
Species each

Pack of 10
Each

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Nematodes

ESB50859 Pig Round Worm *Ascaris* *Ascaris* , pack of 5

Annelids

ESB50860 Lugworm *Arenicola marina* Pack of 5

ESB50861 Earthworm *Lumbricus* mature Pack of 10

ESB50862 Rag Worm *Nereis* Pack of 5

Echinodermata

ESB50863 Starfish *Asterias* small Each

ESB50864 Starfish *Asterias* Large Each

Platyhelminthes

ESB50865 Tape Worm *Monezia* Each

ESB50866 Sheep Liver Fluke *Fasciola hepatica* Pack of 5

Preserved Chordata - Carosafe

Colour injections of preserved specimens:

PLAIN: No colour.

SINGLE: Arterial system injected with red latex.

DOUBLE: Second injection of blue latex in systemic veins.

TRIPLE: Third injection of yellow latex in hepatic system

All of our specimens are ethically sourced.

Chordata on these pages are stored in Carosafe or Phenoxetol (odourless preservative)

ESB50867 Jumbo Frog *Rana* 12-14cm

ESB50868 Frog *Rana* Adult. 8-10cm

ESB50869 Frog *Rana* Double injected 10-12cm

ESB50870 Sheep Brain With dura matter

ESB50871 Sheep Kidney Each

ESB50872 Sheep Heart Roots of vessels intact each

ESB50873 Cow Eyes Pack of 5

ESB50874 Sheep Eyes Pack of 5

ESB50875 Bony Fish Large 10cm+ , Each

ESB50876 Stickleback *Gasterosteus* , pack of 10

ESB50877 Rat - *Rattus* 20cm-22cm Each

ESB50878 Rat - *Rattus* Single injected Arterial system injected with red latex.

ESB50879 Rat - *Rattus* Double injected Second injection of blue latex in systemic veins.

ESB50880 Rat - *Rattus* Triple injected Third injection of yellow latex in hepatic system.

ESB50881 Lancelet Pack of 5

ESB50882 River Lamprey Each

ESB50883 Lizard Anole , Each

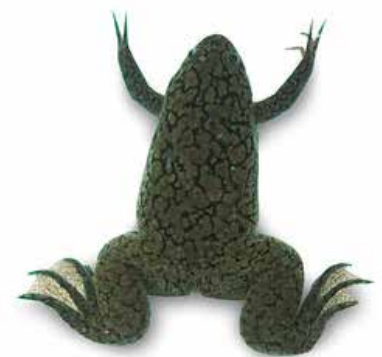
ESB50884 Pregnant *Rattus* Each

ESB50885 Vertebrate Survey Kit-Carosafe «The set includes 9 specimens to show the diversity of vertebrate organisms.

Set includes: Amphioxus, Lamprey, Dogfish, Perch, *Necturus* (salamander), Frog, Turtle, Pigeon, Rat, Teachers manual, Student guide»

ESB50886 Pigeon Plain

ESB50887 Pig Kidney Plain





Biochemistry I Kit

This kit was designed to introduce students to the chemistry of living things and relate biochemistry to everyday life. Includes five basic biochemistry experiments in which students use chemical methods to test for proteins, carbohydrates and lipids, use Pepsin to digest protein and Ninhydrin to detect amino acids, test the activity of salivary amylase (both in vitro and in vivo), develop a technique for determining ascorbic acid concentration and use it to evaluate the vitamin C levels in substances, and determine of the alkalinity of acidity of foods. A great exploratory or introductory experience is gained by performing the test procedures. Ideal for students in biology, general science, or biochemistry courses. Required, but not included: a hot plate or water bath, glass rods, and food samples for testing. Designed for 24 students working

in six groups of four. Grades 8-12

ESB50904



Biochemistry II Kit

Expose upper level students to an expansive survey of fascinating biochemistry experiments. The kit introduces students to scientific techniques while examining ten different topics at a more in-depth level than Biochemistry I. Includes: Determining the pH of Foods, Saliva, and Soil; Starch Determination, Sugar Determination, Fat Determination, Protein Determination, Amino Acid Determination - Pepsin to Digestion of Protein, Ninhydrin Amino Acid Detection, Effects of Varying Conditions on Salivary Amylase Activity, Modelling How Digestion Works, Determination of Ascorbic Acid Concentration, Paper Chromatography of Various Dyes and Plant Pigments

Using Different Solvents. Ideal for biology, nutrition, general science, or biochemistry courses. Required, but not included: a hot plate or water bath, 50mL beakers, forceps, storage jars with caps, funnels, and food samples for testing. Designed for 24 students working in six groups of four. Grades 9-12

ESB50906

Biochemistry I Refill

Refill for Biochemistry I. Grades 8-12

ESB50905



Enzymes (Introduction) Kit

Enzymes are often present in such small quantities that the amount of enzyme is determined by measuring its activity. Through the disappearance of a substrate or the appearance of a product. This kit is designed to study the enzyme activity of Invertase, Amylase, and Pepsin using specific enzyme assay systems. It includes five introductory experiments: Demonstrating Invertase Activity, Demonstrating Amylase Activity, Demonstrating Pepsin Activity, Demonstrating the Presence of Amylase in Saliva, and The Effect of Time on the Activity of Invertase. Invertase and amylase activity are measured using DNS colour change systems. Visual examination or a spectrophotometer can be used to determine enzyme reaction rates for these systems. Kit includes all necessary chemicals and a reply card for Invertase, Amylase - Pepsin & Haemoglobin to be shipped separately upon request. Reply card items are only shipped within the continental United States. Requires lab glassware; including beakers, test tubes, and graduated cylinders; a hot plate or water bath, and a spectrophotometer or colorimeter, absorption 540 nm (optional). Designed for a class of 24 working in groups of 4. Activities are appropriate for advanced biology classes and recommended for Grades 10 - 14.

ESB50907





Effect Of PH On Enzymes Kit

This kit demonstrates the effect of pH on enzyme activity using the enzymes Invertase and Amylase. The pH affects the activity of enzymes in two ways: by affecting the charges on groups in the enzyme's three-dimensional active site and by altering the charges which hold the enzyme molecule together. Altering the charges in the active site can greatly change enzyme activity, but these changes are usually reversible. When an enzyme molecule is denatured by pH changes, the effects are usually not reversible and the enzyme becomes permanently inactive. Enzyme activity is measured using DNS reduction to ANS, which may be assessed visually or by spectrophotometer. Required, but not included: lab glassware; including beakers, test tubes, and graduated cylinders; a hot plate or water bath, use of a spectrophotometer or colorimeter is optional (absorption 540 nm). Reply card must be returned to obtain Invertase and Amylase enzymes. Reply card items are only shipped within the continental United States. Designed for advanced biology classes and includes sufficient chemicals for 24 students working in six groups of four. Grades 10-14

ESB50908



Enzymes In The Home Kit

Using this kit, students will examine enzymatic processes that are commonly used in the home for making cheeses, tenderizing meat, and cleaning. Includes three experiments: Curds & Whey Using Rennet, Proteases and Other Meat Tenderizers, and Detection of Enzymes in Wash Detergents. Required, but not included: a balance, water bath, laboratory glassware including test tubes, graduated cylinders, and beakers; thermometers, test tube racks, distilled water, and ice. Designed for 24 students working in groups of four. Grades 9-14

ESB50909



Advanced Enzymology Kit

The enzyme Invertase hydrolyses sucrose into glucose and fructose. The amount of these reducing sugars can be measured with the chemical DNS which creates a distinctive colour change. Students use a spectrophotometer to determine the reaction rate of Invertase when subjected to varied substrate concentrations, competitive and non-competitive inhibitors, changes in pH, and changes in temperature. Kit includes all necessary chemicals and a reply card for the Invertase enzyme and glucose solutions to be shipped separately upon request. Reply card items are only shipped within the continental United States. Required, but not included: lab glassware; including beakers, test tubes, and graduated cylinders; a hot plate, and a spectrophotometer. Designed for advanced biology classes and includes sufficient chemicals for 24 students working in six groups of four.

ESB50910



Physical Properties Of Protein Kit

This kit demonstrates the important effects of physical parameters such as temperature, pH, salt concentration, and dielectric constants on proteins and illustrates how these effects are used in the isolation and purification of proteins. A protein's amino acid composition and structure influence its physical characteristics. Experiments include: Isoelectric Precipitation of Casein, Separation of Albumin and Gelatin by Ammonium Sulphate Fractionation, Effects of Acetone on Albumin and Gelatin Solutions, Heat Denaturation of Albumin, and Precipitation of Protein by Lead Acetate. Required, but not included: Bunsen burner, glassware, test tube holders. Contains lead acetate. Designed for 24 students working in six groups of four. Grades 9-14

ESB50911





Properties Of Lipids Kit

Lipids constitute a heterogeneous collection of compounds grouped together because of their solubility properties. In nature they are essential for membrane structure and function and for energy storage. The tests in this kit demonstrate the properties of lipids, teach students how to identify lipids, show students how to dissolve lipids in polar substances, and allow students to distinguish between saturated and unsaturated lipids. Experiments include: Solubility of Lipids, Emulsification of Lipids, Grease Spot Test for Fats, Saponification of Fats, and Iodine Test for Absorption. This kit includes chloroform - PEtroleum ether, and methanol. Required, but not included: a fume hood, water bath - PErsonal protective equipment, test tubes, and watch glasses. Designed for 24 students working in six groups of four. Grade: College Level

ESB50913



Qualitative Analysis Of Carbohydrates

With this kit students learn about the unique properties of carbohydrates and how to run analytical tests for characterizing various carbohydrates, starches, and sugars. Experiments includes the Anthrone test for carbohydrates, iodine test for starch, Benedict's test for reducing carbohydrates, Barfoed's test for reducing monosaccharides, Seliwanoff's test for ketosis, and Bial's test for pentoses. Required, but not included: Hot plate or burner, concentrated and 3M hydrochloric acid, concentrated sulphuric acid, glassware. Designed for 24 students working in six groups of four. Grades 10-14

ESB50914



Sequence Of A Peptide

Students will determine the amino acid sequence of a tri peptide isolated from a protein hydrolysate. The experiments in this kit enable students to determine the chain length of the peptide by formal titration, determine the amino acid content and composition of the tripeptide using chromatographic techniques to determine Rf values, and identify which amino acids are the N-terminal and C-terminal residues using solvent extraction, enzymatic digestion, and chromatographic techniques. This kit contains formaldehyde. Includes student data sheets. Designed for 24 students working in groups of four. Grade: College Level.

ESB50915

Sequence Of A Peptide Refill

Grades College

ESB50916



Amino Acid Analysis By TLC

Students learn the theory of chromatography; then separate two different unknown amino acid mixtures using thin layer chromatography (TLC) with amino acid standards run alongside the unknowns. Ninhydrin is used as a visualizing agent; then the rate of flow (Rf) values are calculated for each spot identified on the chromatograms. Students are challenged to predict the migration of the amino acids on the TLC after looking up the structures and pKa values of the four amino acid standards. The unknown components are identified by comparing the Rf values from the unknown amino acid mixtures to Rf data obtained from the four known amino acid standards. Required, but not included: hair dryer, 600 mL beakers for chromatography chambers, clear plastic rulers, and standard laboratory supplies. Designed for 24 students working in six groups of four. Grades 10-14

ESB50918

Amino Acid Analysis By TLC Refill

ESB50919





Qualitative Analysis Of Protein And Amino Acids

This kit demonstrates the principles of protein and amino acid analysis and enables students to identify unknown compounds. In this set of lab activities, students work with the proteins, albumin and gelatin, as well as the amino acids, glutamic acid, glycine, cystine, cysteine, tyrosine, tryptophan, and arginine. Ninhydrin is used to detect the presence of amines, indicating the presence of amino acids and/or proteins, the Biuret test is used to detect the presence of peptide bonds, and specific analytical tests are used for determining the presence of individual amino acids. Protein and amino acid analysis techniques are an integral part of biochemistry and the range of tests available for analysing amino acids and proteins are indicative of their importance. Required, but not included: concentrated nitric acid, ethanol, hot plates, balances, glassware, and distilled water. Designed for 24 students working in six groups of four. Grades 10-14

Physical properties Of Protein Refill

ESB50920

ESB50912

Amino Acid Kit

This molecular kit can be utilized to demonstrate 8 models of L-configuration amino-acids. The amino acid molecular model collection set includes 125 atom parts and 180= NV links. There is no better way to demonstrate the structure and function of amino acids then with this molecular model set.

The following amino acids can be assembled. Group 1 Valine, Group 2 Threonine, Group 3 Phenylalanine, Group 4 Methionine, Group 5 Histidine, Group 6 Aspartic acid, Group 7 Glutamine and Proline. Extra parts are included to form peptide bonds and hydrogen bonds to make a polypeptide chain and part of a beta-pleated sheet.

Diameter of atom parts ranges from 14.5 – 15 mm.

Contents:

- 24 Carbon black, 4-hole
- 19 Carbon black, 3-hole
- 77 Hydrogen white
- 10 Oxygen red -angular
- 10 Oxygen red - linear
- 1 Sulphur yellow
- 1 Nitrogen blue
- 9 Nitrogen blue trigonal
- 1 Nitrogen blue angular
- 8 Hydrogen
- 90 NV-links
- 2 Short link remover tools



ESB50917





Blood Pressure Monitor Digital

Upper Arm Blood pressure Monitor
One Upper Arm Digital Blood Pressure Monitor
Detachable Upper Arm Cuff
Fitted with World Health Organisation classifications
Ideal for measuring blood pressure at home
Easy to use, one touch system
Large display with back-light coloured screen
Highly cost effective
Requires 4 x AA batteries (not included)
Clear easy to see buttons for operation
Automatic power off 3 mins



Blood Pressure Monitor Wrist Type

Easy to Use Wrist Blood pressure Monitor
The Wrist cuff has a circumference of 13.5cm- 21.5cm
Measuring Accuracy of +/- 3mmHg of pressure
Measuring Accuracy of +/- 5% Pulse reading
Measuring pressure range of 0-299 mm-Hg
Measuring Pulse range of 40-199 pulse per minute
Auto power off feature to conserve battery life (3 Mins)
Electronic Inflation
Back-light display
IHB indicator
Supplied with a handy hard case for storage
Powered by 2 x AAA batteries not included

Blood Pulse Oximeter Fingertip

Fingertip Pulse Oximeter
Large Clear LED Screen
4 way movement for comfort
Automatic Power off
Highly accurate
SP02 measurement 70%-99%
Powered by 2x AAA batteries
lanyard supplied
Two Measurement types SP02 and Pulse rate (BPM)



ESB50988



Pumping Heart Model

Scientific experiments, pumping heart

ESB50991



Stethoscope Training , Dual Head

Chrome-plated binaural, lightweight anodized- aluminium chest piece (1-3/4 in. Dia.), 22 in. Vinyl Y-tubing, spare diaphragm, and a pair of soft mushroom ear tips. Overall length: 30 in.

ESB50989

Stethoscope

With very sensitive Chest-piece covers an essential range of sounds to listen to the heartbeats and functional sound of lungs. Very convenient to use and more suitable for medical students and colleges.



ESB50990





Human Disarticulated Skeleton, Full

This life size model shows the complete human skeleton with separated bones: skull, axial section, hyoid bone, ribs, sternum with rib cartilage, upper and lower limbs, sacrum and coccyx are represented in high detail. One hand and foot (left) are on wire, the other set is removed. The skull can be disassembled into 3 parts: skullcap, base of skull and mandible.

Dimensions : 54 x 39 x 21cm

Net weight : 8000 g

ESB51032



Human Skeleton, 45cm

This is 45cm height human skeleton model. Skullcap and legs can be removed easily. White color.

Dimensions : 29 x 16 x 11 cm Net Weight : 600 g

ESM61860



Human Disarticulated Skeleton, Half

This life-size model features a disarticulated human skeleton comprising one of each bone type: skull, axial skeleton, hyoid bone, ribs, intervertebral discs, sternum with rib cartilage, upper and lower limb, sacrum, and coccyx, all depicted in high detail. Additionally, the right hand and foot are represented on wire. The skull is designed to be disassembled into three parts: skullcap, base of the skull, and mandible.

Net Weight : 4000 g

ESB51032/H



Human Skeleton with Nerves

Hanging 85cm

This 1/2 life size model shows the anatomy of the human skeleton. With nerves and transparent intervertebral discs.

This skeleton is hanging, which spine is flexible.

All the main joints are articulated.

Arms and legs can be removed easily.

Dimensions : 50 x 24 x 16.5 cm

Net weight : 2500 g

ESB51034H





Human Skeleton Model With Nerves 85cm

Mini skeleton with nerves outlined, The skull can be disassembled into 3 parts: skullcap, base of skull and mandible. All the main joints are articulated. Arms and legs can be removed easily. Mounted on a stand

Dimensions : 85 cm

ESB51034



Human Skeleton Model 85cm

Mini skeleton The skull can be disassembled into 3 parts: skullcap, base of skull and mandible, All the main joints are articulated, Arms and legs can be removed easily mounted on a stand

Dimensions : height 85 cm

ESB51033



Human Skeleton Model With Nerves & Muscle, Numbered 85cm, Hanging

"This 1/2 life size model shows the anatomy of the human skeleton. With nerves and transparent intervertebral discs. This skeleton is hanging, which spine is flexible.

All the main joints are articulated. Arms and legs can be removed easily. The half side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles.

Dimensions : height 85 cm

ESB51031H



Human Skeleton Model With Nerves Muscles 85cm

This 1/2 life size model shows the anatomy of the human skeleton. With nerves and transparent intervertebral discs. The skull can be disassembled into 3 parts: skullcap, base of skull and mandible. All the main joints are articulated. Arms and legs can be removed easily. The half side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles

Dimensions : 85 cm

ESB51030



Human Skeleton Model With Blood Vessels 85cm

This 1/2 life size model shows the anatomy of the human skeleton. It shows the artery, vein, nerves and heart.

The skull can be disassembled into 3 parts: skullcap, base of skull and mandible. There is a brain inside the skull.

All the main joints are articulated. Arms and legs can be removed easily. Dimensions : 85 cm Weight : 2500 g

ESB51029



Human Skeleton Model Hanging With Ligament & Muscle, Numbered 85cm

This 1/2 life size model shows the anatomy of the human skeleton. With nerves and transparent intervertebral discs. This skeleton is hanging, which spine is flexible.

All the main joints are articulated. Left arm and legs can be removed easily. The half side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles. The other side shows the ligaments.. Dimensions : 85 cm

ESB51031



Human Skeleton Model 170cm

This life-size human skeleton model is meticulously crafted to showcase each skeletal part with exceptional detail. Hand-assembled for intricate accuracy and long-term durability, it features articulated main joints and easily detachable upper and lower limbs.

The detachable parts include:

Calvarium (skullcap)

Jaw

Legs

Skull

Arms

Additionally, it comes with a 5-caster roller stand for convenient mobility and display.

Dimensions : 176 cm height

Weight : 9000 g

ESB51035





Human Skeleton Flexible Model 170cm

This model is a replica of a life size human skeleton and shows all the skeleton parts in high details. It's hand-assembled to provide intricate details and long-lasting durability. The main joints are articulated; the upper and lower limbs can be removed easily. Spine is flexible.

Dimensions : 176 cm height

Weight : 9000 g

ESB51035FLX

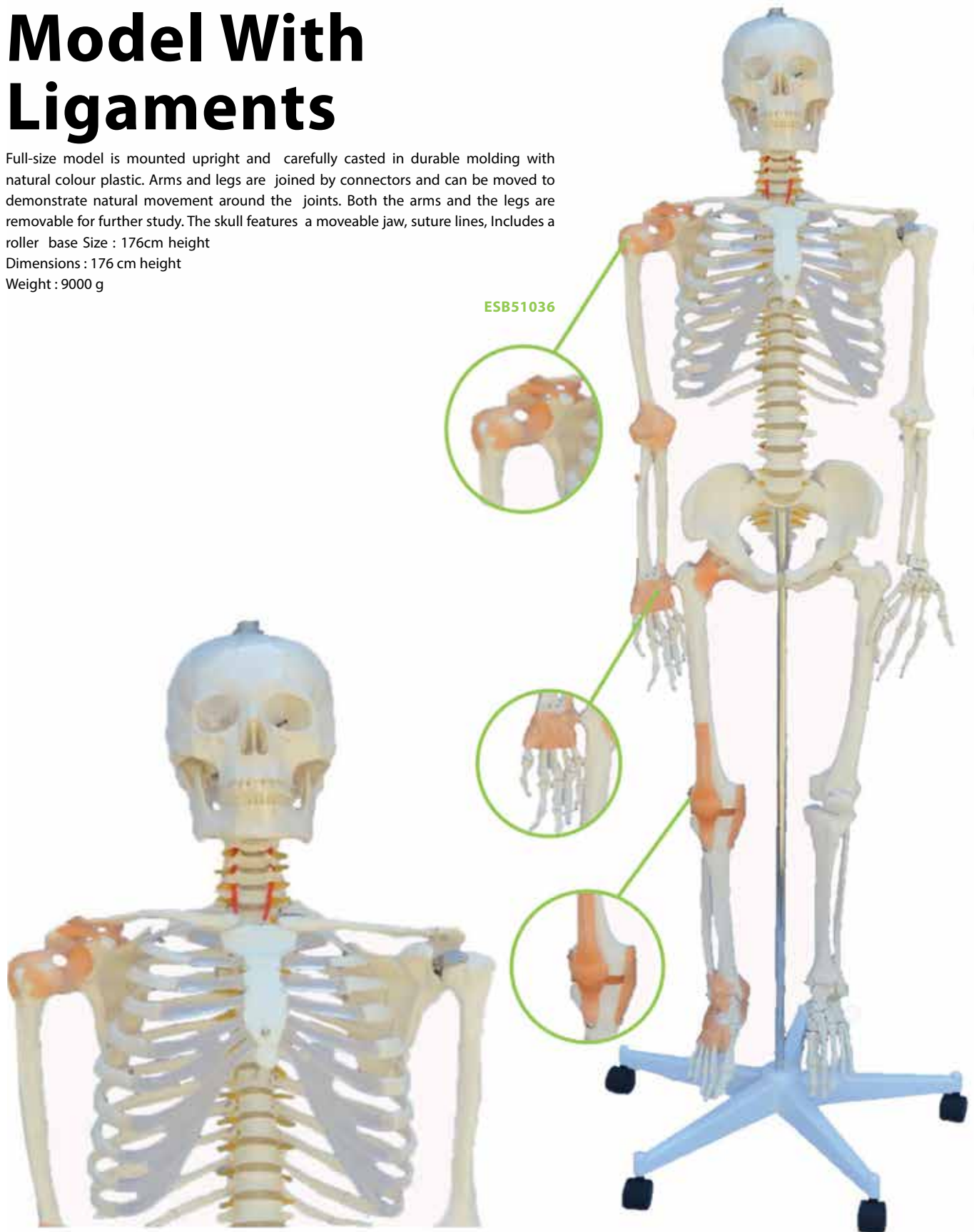


Human Skeleton Model With Ligaments

Full-size model is mounted upright and carefully casted in durable molding with natural colour plastic. Arms and legs are joined by connectors and can be moved to demonstrate natural movement around the joints. Both the arms and the legs are removable for further study. The skull features a moveable jaw, suture lines, Includes a roller base

Size : 176cm height

Weight : 9000 g



Human Muscular Skeleton Model

Full-size model is mounted upright and carefully casted in durable moulding with natural colour plastic. Arms and legs are joined by This model is a replica of a life size human skeleton and shows all the skeleton parts in high details. It is hand assembled to provide intricate details and long-lasting durability. The main joints are articulated; the upper and lower limbs can be removed easily. The following parts are detachable: Calvarium, Skull, Jaw, Arms, Legs. The left side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles.

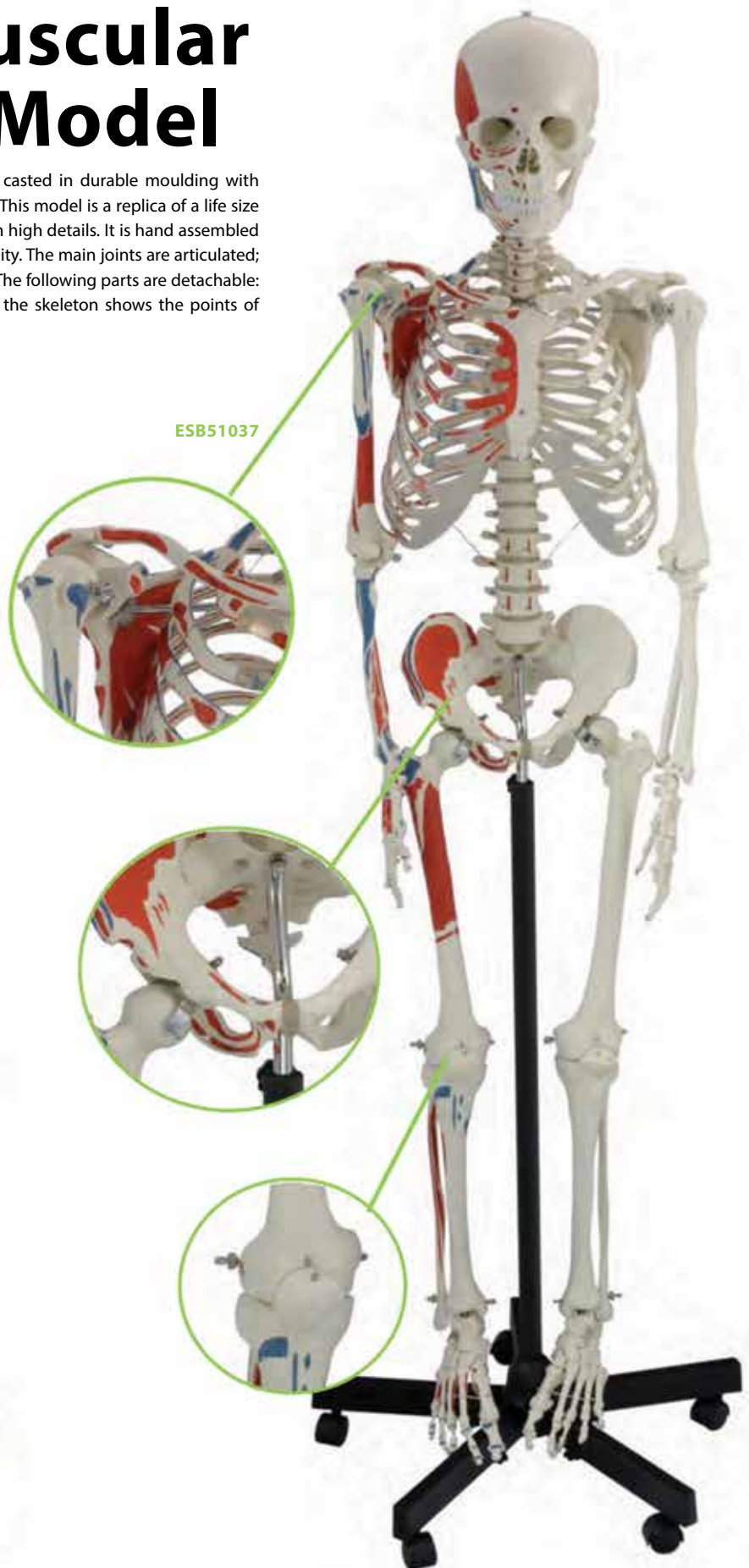
Dimensions : 27*45*96cm ;176 cm height

Weight : 11000 g

ESB51037

also available in hanging stand

ESB51037H



Human Muscular Skeleton Model with Ligaments

Full-size model is mounted upright and carefully casted in durable moulding with natural colour plastic. Arms and legs are joined by connectors and can be moved to demonstrate natural movement around the joints. Both the arms and the legs are removable for further study. The skull features a moveable jaw, suture lines. Includes a roller base
Dimensions : 176 cm height
Net weight : 9000 g

ESB51038





Human Flexible Muscle Skeleton Model With Liagment, Numberd

This model is a replica of a life size human skeleton and shows all the skeleton parts in high details. Its hand-assembled to provide intricate details and long-lasting are articulated; the upper and lower limbs following parts are detachable: Calvarium, Jaw, Legs, Skull, Arms. The left side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles. Muscles are numbered and with a manual. The right side shows the ligaments.

Spine is flexible.

Dimensions : 176 cm

Net weight : 9000 g

ESB51038FLX





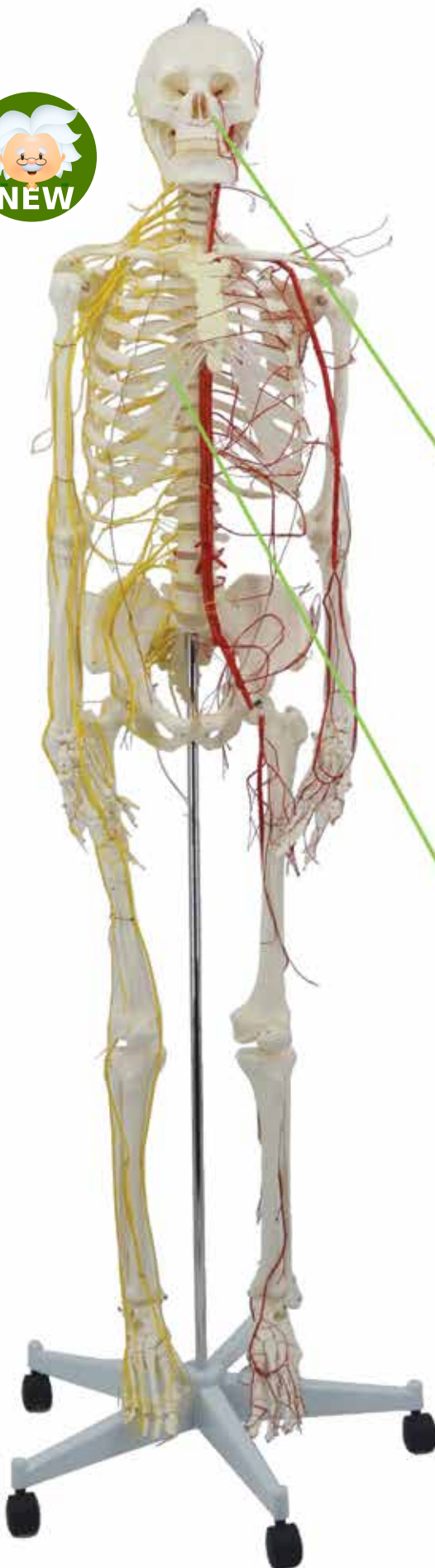
Human Skeleton With Nerves and Blood Vessels Model 170 cm

Full-size model is mounted upright and carefully casted in durable moulding with natural colour plastic. Arms and legs are joined by This model is a replica of a life size human skeleton and shows all the skeleton parts in high details. Its hand assembled to provide intricate details and longlasting durability. The main joints are articulated; the upper and lower limbs can be removed easily. The following parts are detachable: Calvarium, Skull, Jaw, Arms, Legs. The left side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles.

Dimensions : 170 cm height

ESB51028

Biology



**Skull Mini Model**

Mini human skull model

Dimensions : 8*7*10 cm

Weight : 110 g

ESB51039

**Skull With Muscle Insertion Model**

This life-size model reproduces the human skull in great detail. All the most important anatomical structures are numbered; the left side of the skull shows the points of origin (red) and the points of insertion (blue) of the muscles. It can be disassembled into three parts: skullcap, base of skull and mandible.

Dimensions : 13*15*19.5 cm

Weight : 800 g

ESB51043

**Classic Skull Model**

A detailed reproduction of a life size human skull with all structural details. The skullcap is removable to show the internal structure of the skull. The mandible is articulated and removable. All of the joints, sutures, fissure, foramina and processes are portrayed with utmost accuracy.

Dimensions : 13*15*19.5 cm

Weight : 800 g

ESB51041

**Numbered Skull Model**

A detailed reproduction of a life size human skull with all structural details. The skullcap is removable to show internal details. The mandible is articulated and removable. All of the joints, sutures, fissure, foramina and processes are portrayed with utmost accuracy. Significant structures are numbered.

Dimensions : 13*15*19.5 cm

Weight : 800 g

ESB51042





Skull Model Colored 22 Parts

This fascinating model of an average European adult skull can be disassembled into 22 single bones. During development of this model one of the main targets was to make the model easy to assemble and dismantle. Stable parts with convenient magnet connections make handling of the product a child's play. The detailed bones do not need any complicated pins to be stuck into holes, they almost slide into position, guided by realistic bone sutures and held by strong magnets. The perfect tool for Osteopaths. This version is perfect for visual distinction of the single bones. The bones are produced in different colours, commonly used in anatomy, geminate bones do have identical colour.

Dimensions : 23*18*27 cm

ESB51044/22



Skull Model 22 Parts

This fascinating model of an average European adult skull can be disassembled into 22 single bones. During development of this model one of the main targets was to make the model easy to assemble and dismantle. Stable parts with convenient magnet connections make handling of the product a child's play. The detailed bones do not need any complicated pins to be stuck into holes, they almost slide into position, guided by realistic bone sutures and held by strong magnets. The perfect tool for Osteopaths.

Dimensions : 17*19.5*21.5 cm

ESB51041/22



Skull Mini Model 15 Parts 1/2 life size

This Half Size life , 15 Parts Palm-Sized Anatomy Skull Model For: Medical Teaching Learning, Kids Learning Education Display;

This 15 parts mini human skull has every detail; that the big models have, including: the holes, sockets, canals, and a complete set of human teeth. It also shows the bones structure, texture, articulating mandible, eye sockets, sutures, internal nasal cavity, and the endocranium cavity; a great teaching aid for anatomy and physiology courses and school teaching, learning display tool..

Dimensions : 8*15*15 cm

Weight: 1000 g

ESB51039/15



Skull Colored Model 15 Parts 1/2 life size

This Half Size life , Printed 15 Parts Palm-Sized Anatomy Skull Model For: Medical Teaching Learning, Kids Learning Education Display; This

15 parts mini human skull has every detail; that the big models have, including: the holes, sockets, canals, and a complete set of human teeth. It also shows the bones structure, texture, articulating mandible, eye sockets, sutures, internal nasal cavity, and the endocranium cavity; a great teaching aid for anatomy and physiology courses and school teaching, learning display tool..

Dimensions : 8*14*16 cm

Weight: 700 g

ESB51039C/15





Baby Skull Model (Foetus Skull)

This model represents a human foetal skull in the 30th week of pregnancy.
Dimensions : 33*16*21 cm

ESB51040



Skull With Cervical Vertebra Model

Life-size skull is highly detailed with representations of the fissures, foramina, processes, sutures, and cervical spine, including the seven cervical vertebrae, spinal cord, cervical nerves, vertebral arteries, basilar arteries, and rear cerebral arteries. Three-part skull can be disassembled into the skull cap, skull base, and mandible. Mandible is spring mounted to demonstrate natural movement and has three removable teeth. Mounted on stand.

Dimensions : 33*16*21 cm

Weight : 1400 g

ESB51045



Colored And Muscle Skull With Cervical Vertebra Model

Life-size skull model with cervical spine column is of high quality and an original cast. It is mounted on a stand, with 7 cervical vertebrae. It is half side didactically Painted and half side painted with muscle insertions and origins in blue and red, which is numbered and corresponds to the manual description.

Skull is 3-part: Calvaria, Base of Skull, and Mandible. Mandible of skull is mounted on a spring to easily demonstrate natural movement. Model height: 30cm include. Stand

Dimensions: 20*19*14 cm

ESB51046/M





Coloured Skull Model

This life size model is a detailed reproduction of the human skull. The skullcap is removable to show internal details; the mandible is articulated and removable. All the joints, sutures, fissures, foramina and processes are portrayed with utmost accuracy. All the bones are depicted in different colours, making this model a useful tool to study the correct position and the relationship of all the structures. Dimensions :13*15*19.5 cm
Weight : 800 g

ESB51044



Coloured Skull Model With Cervical Vertebra

This life size model of skull with Cervical Vertebra is a detailed reproduction of the human skull. The skullcap is removable to show internal details; the mandible is articulated and removable. All the joints, sutures, fissures, foramina and processes are portrayed with utmost accuracy. All the bones are depicted in different colours, making this model a useful tool to study the correct position and the relationship of all the structures.

Dimensions : 33*16*21 cm

Weight : 1400 g

ESB51046



**Arm Bone Model**

A life size plastic skeleton of the hand with forearm bones (radius and ulna). All the joints are articulated.

Dimensions : 39*5*14 cm

Weight: 700 g

ESB51047

**Foot Bone Model**

A life size skeleton of the human foot with articulated joints. Natural movements of the foot can be demonstrate easily and effectively.

Dimensions : 9*18*23 cm

Weight : 450 g

ESB51049

**Hand Bone Model**

A life size plastic skeleton of the human hand with articulated joints.

Dimensions : 24*11*11 cm

Weight : 160 g

ESB51048

**Bone Of The Leg Model With Half Pelvis**

An articulated life size plastic skeleton of the lower limb with half pelvis, including the entire hip joint.

Diminution: 16*24*50 cm

Weight: 1800 g

ESB51354

**Bone Of The Leg Model**

An articulated life size plastic skeleton of the lower limb.

ESB51353



**Upper Limb Model**

Length:70 cm

Weight:350 g

ESB51355

**Upper Limb Model With Scapula & Clavicle**

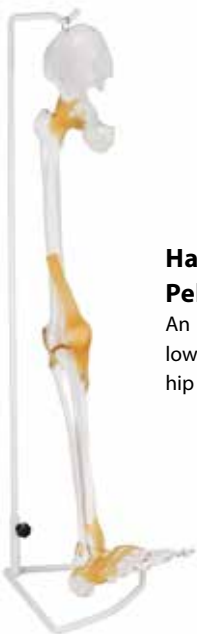
ESB51357

**Hanging Upper Limb Model With Scapula, Clavicle and Ligaments**

ESB51358

**Upper Limb Model With Holder**

ESB51356

**Hanging Lower Limb Model With Pelvis And Ligaments**

An articulated life size plastic skeleton of the lower limb with half pelvis, including the entire hip joint. With ligaments and base

ESB51360

**Lower Limb Model With Holder**

An articulated life size plastic skeleton of the lower limb with half pelvis, including the entire hip joint. With a base

ESB51359



Female Skeletal Pelvis Model

A complete life size skeleton of a female human pelvis consisting of the pelvic bones (ischium, ilium and pubis), sacrum, coccyx and symphysis.

Dimensions : 21*18*24 cm

Weight : 1100 g



ESB51057

**Male Skeletal Pelvis Model**

A complete life size plastic skeleton of a human male pelvis consisting of the pelvic bones (ischium, ilium and pubis), sacrum, coccyx and symphysis.

Dimensions : 21*18*24 cm,

Weight : 1100 g

ESB51056

Model Of Pelvis With 4th And 5th Lumbar Vertebra

A complete life size plastic skeleton of a human male pelvis consisting of the pelvic bones (ischium, ilium and pubis), sacrum, coccyx and symphysis.

Dimensions : 24*20*21 cm

Weight : 1300 g



ESB51058

**Model Of Pelvis With 5 Lumbar And Femurs**

This life size model consists of the pelvic bones with femur heads, sacrum, coccyx and lumbar vertebrae with intervertebral discs.

Dimensions : 8.5*13*19 cm

Weight : g

ESB51361

**Model Of Pelvis With 5 Lumbar And Femurs 1**

This is reduced size model consists of the pelvic bones with femur heads, sacrum, coccyx and lumbar vertebrae with intervertebral discs.

Dimensions : 17*25*32 cm Weight : 2000 g

ESB51362

**Shoulder Joint Model With Muscle**

Full size normal right shoulder includes: infraspinatus, subscapularis, supraspinatus, and teres major and minor muscles; acromion, clavicle, humerus and scapula bones; plus eight ligaments and tendons.

Dimensions : 23*13*16.5 cm

Weight : 1000 g

ESB51050/M

**Knee Joint Model With Muscle**

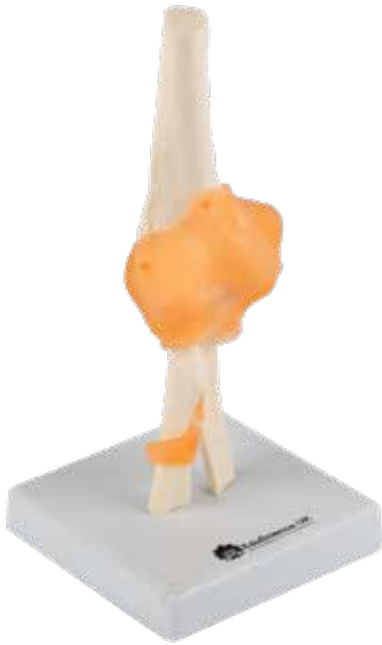
Full size normal knee includes: rectus femoris, vastus lateralis and vastus medialis muscles; femur, fibula, patella and tibia bones; anterior cruciate ligament, quadriceps femoris tendon plus six more ligaments and tendons.

Dimensions : 25*35*30 cm

Weight : 1500 g

ESB51051/M





Knee Joint Model

This life size model represents a functional model of knee joint with lateral ligaments, meniscus and patellar ligament.

Dimensions : 32*12*12 cm

Weight : 440 g

ESB51051



Elbow Joint Model

This single-piece life-size model is a realistic representation of the human elbow with ligaments.

Dimensions : 11*11*28 cm

Weight : 580 g

ESB51052



Hip Joint Model

This single piece life-size model illustrates the right hip joint with ligaments.

Dimensions : 24.5* 12*15 cm

Weight : 600 g

ESB51053



Shoulder Joint Model

This life size model shows the shoulder joint with ligaments.

Dimensions : 23*11*16.5 cm

Weight : 430 g

ESB51050



Hand Joint Model With Ligaments

This hand skeleton model shows the anatomical detail of main joint ligaments and tendons found in the hand, wrist, and forearm.

Dimensions : 24*11*11 cm,

Weight : 300 g

ESB51055



Foot Joint Model With Ligaments

This detailed foot skeleton model displays numerous important ligaments and tendons including the Achilles and peroneus longus tendons of the ankle. The foot skeleton consists of the foot bone and lower portions of the tibia and fibula, including the interosseous membrane found between them.

Dimensions : 30* 18*23 cm

Weight : 800 g

ESB51054





Classic Flexible Spinal Column Model

A fully flexible life size vertebral column including the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and prolapsed L3-L4 intervertebral disc

Dimensions : 18*24*89 cm

Weight : 3500 g

ESB51059



Flexible Spinal Column Model With Femur

A fully flexible life size vertebral column including the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and prolapsed L3-L4 intervertebral disc

Size : 18*24*89 cm

Net weight : 3500 g

ESB51060



Flexible Spinal Column Model With Colour Coded Regions

A full flexible life size vertebral column including the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx and complete pelvis. Included are the vertebral arteries, spinal nerves and a prolapsed L3-L4 intervertebral disc. The various regions of the spinal column are colour coded for ease of identification.

Dimensions : 18*24*89 cm

Weight : 3000 g

ESB51061



Flexible Spinal Column Model With Femur

A fully flexible life size vertebral column consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and a prolapsed L3-L4 intervertebral disc.

Dimensions : 18*24*89 cm

Weight : 3000 g

ESB51062





Vertebra Column Flexible With Femur Head Model

A fully flexible life size vertebral column including the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and prolapsed L3-L4 inter-vertebral disc. The left side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles. Dimensions : 18*24*89 cm

Weight : 3500 g

ESB51064



Flexible Spinal Column Model with Colour Coded Regions and Fur

A full flexible life size vertebral column including the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx and complete pelvis and femurs. Included are the vertebral arteries, spinal nerves and a prolapsed L3-L4 intervertebral disc. The various regions of the spinal column are color coded for ease of identification.

ESB51368



Flexible Spinal Column Model

A fully flexible life size vertebral column consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx and complete pelvis. Features include representations of the vertebral arteries, spinal nerve branches and a prolapsed L3-L4 intervertebral disc.

ESB51367



Flexible Spinal Column Model with Femur, open Sacrum

identification.

ESB51062/OS





Skeleton Of Human Trunk Model With Stand

A fully flexible life size plastic human trunk skeleton consisting of the following features: complete pelvis including the ischium, ilium and pubis, sacrum, coccyx and the symphysis, complete spinal column with ribs and sternum associated structures, occipital plate, clavicle and scapula.

Dimensions : 30*35*75 cm

Weight : 5000 g

ESB51198



Classic Spinal Column Model 1/2 life Size

A Half life size vertebral column consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and a prolapsed L3-L4 intervertebral disc.

ESB51364



Flexible Spinal Column Model with Femur,

Open Sacrum, with Muscle insertion

ESB51062/OSM



Colored flexible spinal column Model with femur , Hanging

A hanging 2/1 life size colored flexible vertebral column consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and a prolapsed L3-L4 intervertebral disc

ESB51365H



Colored Flexible Spinal Column Model with Femur

A Half life size colored flexible vertebral column consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and a prolapsed L3-L4 intervertebral disc.

ESB51365





Cervical Vertebrae Occipital Bone With Spinal Cord Model

His real life replica of the anatomy of the cervical spinal column is a high quality model. Consisting of, occipital plate, the 7 cervical vertebrae with invertebrate discs, cervical nerves, vertebral arteries and spinal cord. The cervical spinal column is delivered on a stand.

Dimensions : 19 cm

Weight : 300 g

ESB51063



Deluxe Muscled Cervical Model

Full size model features brain stem, occipital bone, atlas and axis through C7 (with herniated disc), T1 and T3. This model has a soft cerebellum and full nerve with right side brachial plexus. Muscles include suboccipital triangle, longus capitis, levator scapulae and scalene muscles. The right first and second ribs are also featured and include cartilage.

ESB51283



Lumbar Vertebra, Sacrum Bone With Spinal Nerves Model

This life size model consists of 5 lumbar vertebrae with inter-vertebral discs, lumbar nerves and spinal cord. The sacral crest and coccyx are removable to show the sacral segment of the spinal cord and associated nerve branches.

Dimensions : 12*12*37 cm

Weight : 800 g

ESB51065



Transparent Lumbar Vertebra, Sacrum Bone with Spinal Nerves Model

The acrylic lumbar spine model shows the structure and shape of the seven section lumbar vertebrae of the human body, which is formed by vertebral bones, intervertebral discs, spinal nerves, sacrum and coccyx.

Dimensions : 16*16*36 cm

Weight : 1.94 kg

ESB51065/T





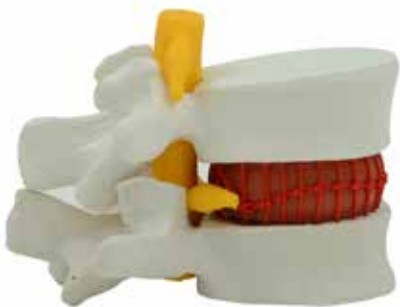
Occipital, Atlas, Axis Model

Enlarged 1.5X Occipital Bone Model - This skeletal bone is a remodeled model of selected young men's skeletal specimens, with strong science and detailed anatomical details and bone textures. It shows the real connection position and shape of the occipital bone, atlas and axis.

Dimensions : 18 * 11.5 * 14 cm

Weight : 581 g

ESB51371



Lumbar Vertebra With Hemocyte Model

This life size model shows 2 lumbar vertebrae with spinal nerves

ESB51067



Bone Structure Model

This 80X life-size enlarged model demonstrates a 3-D section of a lamellar bone, along with the normal structure of a tubular bone. Extremely detailed model utilizes various planes in cross, longitudinal, and two-plane sections through all the levels of bone to demonstrate the interaction between the individual bone structure elements. Mounted on a base.

ESB51069



Thoracic Spinal Column Model

This life size model shows the thoracic spinal column. It consists of 12 thoracic vertebrae with intervertebral discs, thoracic nerves and spinal cord.

Dimensions 40*12*2cm,

Weight : 600 g

ESB51366



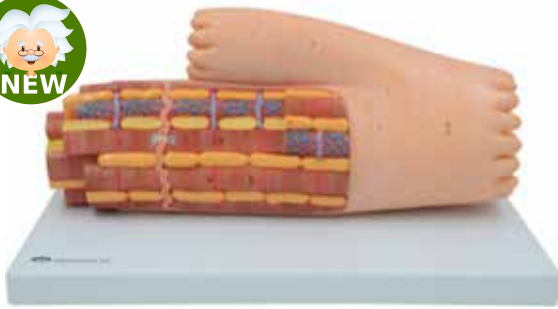
Bone Tissue Model

This model is composed of 4 parts and shows different structures of the human bones.

The external structure of the femur with periosteum, vessels, spongy bone, compact bone and haversian system. Dimensions : 32*10*44cm, Weight : 1500 g

ESB51068





Cardiac Muscle Model

Cardiac Muscle Model Block model shows a greatly enlarged cardiac muscle fiber with significant anatomical features, including the sarcolemma, nucleus, mitochondria, transverse tubules, intercalated discs, and myofilaments. Mounted on a durable base. Dimensions : 14*11*39 cm.

ESB51285



Smooth Muscle Model

Smooth Muscle Fiber Model This extremely thin smooth muscle tissue model is magnified approximately 10,000 times and shows the ultrastructural anatomy of a smooth muscle. Smooth muscle is widely distributed beyond the muscles of the invertebrate body. In addition to the myocardium, most visceral muscles are composed of smooth muscle. Dimensions : 13*23*33cm. Weight: 1.8kg.

ESB51286



Skeletal Muscle Fiber Model

This model, enlarged approximately 40000X, shows the structure of skeletal muscle fibres, including the anatomical features of sarcomeres with sarcoplasmic reticulum, myosin and actin myofibrils and the neuromuscular plate. Dimensions : 19*25*26 cm. Weight : 1300 g.

ESB51073



Masticatory Muscle Model

Masticatory Muscles and Nerves Model This skull model, divided into five parts, was specially designed to demonstrate the function of the muscles and nerves responsible for chewing. The anatomy of the nerves, arteries, veins and muscles in the deep maxillofacial region can be seen in detail. The brain and eyeball are removable for closer analysis. Dimensions : 27*32.5*32.5cm. Weight: 2.5kg.

ESB51288



Shoulder Model With Deep Muscle

This model illustrates in great details the muscles, ligament and bones of the shoulder. Through different muscles section it is possible to observe the profound musculature as far as to get bone. Life size model in 1 piece. Dimensions : 25*11*11 cm. Weight : 530 g.

ESB51075



Male Perineum Model

This life size model shows the male perineal area, including the anus and external genitalia. The pelvic diaphragm, urogenital perineum and anal perineum are well represented, including distribution of blood vessels and nerve endings. Mounted On Base. Dimensions : 14*34* 34 cm. Weight : 2000 g.

ESB51078/M



Muscle of Tongue Model

This life size model is a ventral view of the human neck, showing excellent details of the main muscles, vascular structures, nerves and glands. Mounted on board. Dimensions : 33x23x11.5 cm. Weight: approx. 600 g.

ESB51289





Female Perineum Model

This life size model shows the female perineal area, including the anus and the external genitalia. The pelvic diaphragm, urogenital perineum with opening of the vagina and the anal perineum are well represented. Distribution of blood vessels and nerve endings is included.

Dimensions : 10*23*33cm

Weight : 1200g

ESB51078M



Schematic Cross Section Through Thorax Model

This life size model shows a cross sectional view through the thorax at the level of the T12 vertebra. In this model it is possible to observe the horizontally sectioned heart, lungs, veins, arteries and other thoracic structures.

Mounted On Base.

Dimensions : 13*24*34 cm.

Weight: approx. 3000 g

ESB51281



Anatomy of The Neck Model

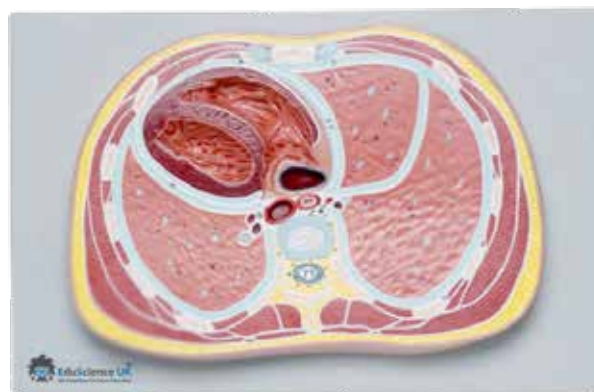
This life size model is a ventral view of the human neck, showing excellent details of the main muscles, vascular structures, nerves and glands.

Mounted on Base with stand.

Dimensions : 11*23*33 cm

Weight: approx. 600 g

ESB51203



Schematic Cross Section Through Abdomen Model

This life size model shows a typical cross sectional view through the abdomen at the level of the T12 vertebra. The stomach, liver, kidney, spleen and other abdomen structures are sectioned horizontally.

Mounted On Base.

Dimensions : 6*23*33 cm.

Weight: approx. 1350 g

ESB51282



Mediastinum Model

This life-sized model comprises five parts, featuring a two-part heart that offers an internal perspective of the chambers and valves. The sternum and thymus can be removed to expose the pericardial sac and the primary pulmonary and systemic vessels. Additionally, the trachea and esophagus are depicted entering the mediastinum through the superior thoracic aperture, while the inferior thoracic aperture is outlined by the diaphragmatic musculature.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions: 30.5*26*39.5 cm

Weight: 2800 g

ESB51088

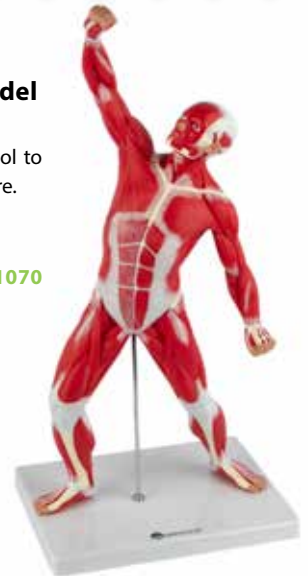




Human Muscular Figure Model, 21 cm

This mini model accurately depicts the topography of the human superficial musculature. Dimensions : 23*8*13 cm, Weight : 350 g

ESB51615



ESB51070

Human Muscular Figure Model 50 Cm

This 4/1 life-size model is a useful tool to study human superficial musculature. Dimensions : 53*20*25 cm Weight : 1500 g



Human Muscular Figure Model 25cm

This mini model accurately depicts the topography of the human superficial musculature. Dimensions : 25*6.5*12 cm Weight : 40 g

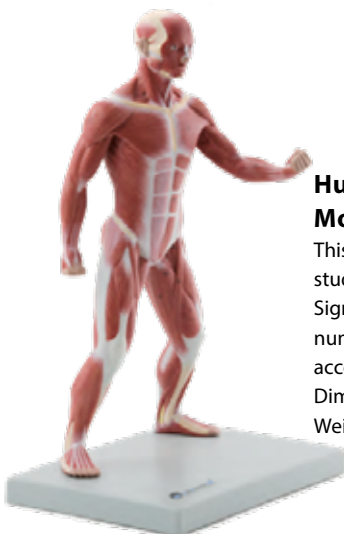
ESB51616



ESB51070N

Human Muscular Figure Model Numbered, 50 cm

This reduced size model accurately depicts the topography of the human superficial musculature. Detailed parts are numbered and with a manual. Dimensions : 53*20*25 cm Weight : 1500 g



Human Muscular Figure Model, 40 cm

This 1/4 life-size model is a useful tool to study human superficial musculature. Significant structures are numbered and referenced on the accompanying manual. Dimensions : 40.5*19*25.5 cm Weight : 700 g

ESB51617

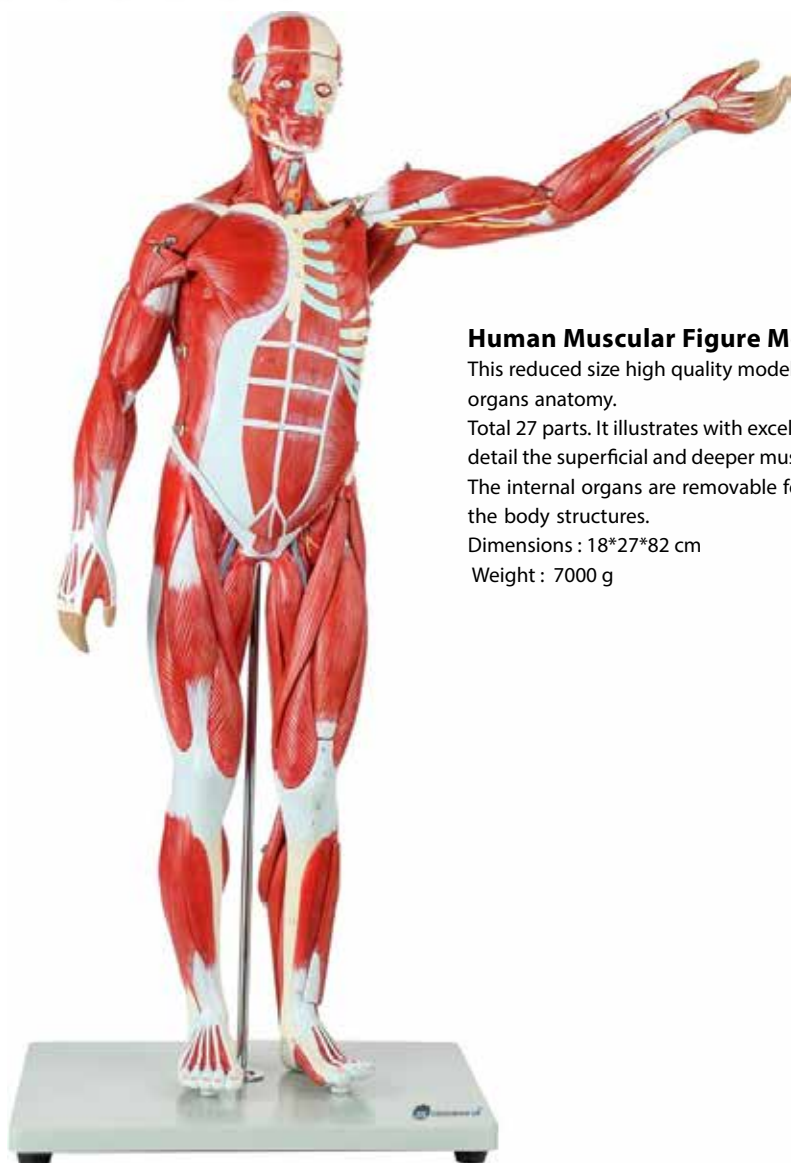


ESB51618

Colored Human Muscular Figure Model, 50cm

This colored reduced size model accurately depicts the topography of the human superficial musculature. Dimensions : 53*20*25 cm Weight : 1500 g





Human Muscular Figure Model ,27 Parts,78cm

This reduced size high quality model represents a replica of the complete human muscular and organs anatomy.

Total 27 parts. It illustrates with excellent detail the superficial and deeper muscles, tendons, ligaments, vessels and body structures.

The internal organs are removable for closer examination to study the relationships among all the body structures.

Dimensions : 18*27*82 cm

Weight : 7000 g

ESB51619



Human Muscular Figure Model ,30 Parts, 85cm

This 2/1 life size high quality model ; represents a replica of the complete human ; muscular and organs

anatomy. It illustrates with excellent detail the superficial and deeper muscles, tendons, ligaments, vessels and body structures. the internal organs are removable for closer examination to study the relationships among all the body structures.

Dimensions : 88.5*26*36 cm

Weight : 5000 g

ESB51620





Human Muscular Figure Model, 170cm Height

being developed, finished model should be prepared in the beginning of 2025.

ESB51622



Human Muscular Figure Model 140cm Height - 32 Parts

This 32 part -model is about 140cm tall and includes a 6 - part muscular arm and an 8-part muscular leg. Removable parts include also skullcap, brain (cut along the longitudinal fissure and showing internal structures and blood vessels is removable), 140cm Height Muscular Figure, 32Parts halves of both lungs showing the bronchial tree and vascular system, 2-part heart clearly representing atria, ventricles, valves and section of heart wall, liver with gallbladder, stomach dissected in 2 parts, duodenum with pancreas and spleen, large intestine. Significant features are numbered and referenced on the accompanying manual.

Dimensions : 40*50*145 cm

Weight : 12000 g

ESB51621





Muscles Of Human Arm Model

This 7-part life size model shows, in great detail, the anatomical structure of the arm, complete with superficial and deeper muscles, vascular structures, nerves and ligaments. The hand and the shoulder are also well represented. The following parts are removable: - Deltoid muscle - Biceps muscle - Triceps muscle - Long palmar muscle with radial flexor muscle of wrist - Brachioradial muscle with radial extensor muscle of wrist - Palmar aponeurosis,

Dimensions : 24*32*72 cm,
Weight : 4700 g

ESB51071



Human Muscles of Arm Model

This model illustrates the muscles of the arm in the relaxed and contracted states. Muscles and tendons are shown in great detail.

Dimensions : 9.5*38*53 cm,
Weight : 700 g

ESB51290



Muscles Of The Hand Model 4 - Parts

This life size model is composed of 4 parts. The palmar aponeurosis and the palmaris brevis can be removed to reveal the underlying network of muscles, tendons, vessels and nerves. A deeper palmar dissection allows observation of the palmaris longus tendon, the palmar carpal ligament and the median nerve. Part of the thenar muscles can be removed to expose the superficial palmar branch of the radial artery. A superficial dorsal dissection shows ligaments, nerves and vessels.

Dimensions : 8.5*25.5*39.5 cm,
Wweight : 1900 g

ESB51077



Muscles Of The Hand Model 7 - Parts

This life-size model shows the anatomy of the hand with great accuracy and detail; the superficial layers can be removed at different levels to expose the inner structures. Muscles, blood vessels, nerves, tendons, ligaments and bones are well represented.

Dimensions :33*11*13 cm
Weight: 330 g

ESB51074/7

Anatomy Of The Hand Model 3 - Parts

This 3-part model, enlarged 2X life size, shows the anatomy of the hand, including muscles, nerves, ligaments, vessels and bone structures. Aponeurosis is removable for closer examination.

Dimensions : 40*38*28 cm,
Weight : 965 g

ESB51074





Section Muscles Of Human Arm Model

The model is based on the body joints of the human body. The real joint MRI cut surface is designed for reference. It shows the structural relationship of bones, muscles, nerves and blood vessels in the joints of the human body.

imported PVC material, imported paint, computer color matching, advanced hand painting

Diminutions : 4*32*26 cm

ESB51291

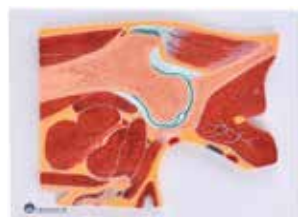


Elbow Joint Section Structure Model

This model is widely used in orthopedics, surgery, clinical teaching, occupational disease prevention, ergonomics, physical education, etc., with good auxiliary teaching and demonstration .Different colors are used to distinguish different positions, and the colors are bright and easy to attract students' attention, so you can to teaching demonstration, which promotes students' understanding and increases classroom fun. The texture is particularly clear, the mold is the injection molding precision mold, the anatomical logo is very standard. Therefore, you can be effective practice training ,it is the best tool for your learning. Enough The model Made in 1:1 ratio, showing the structural relationships of bones, muscles, nerves, blood vessels, etc. A rare aid tool for your in-depth research and study. It made of food-grade PVC environmentally friendly materials

Diminutions : , 4*32*26 cm

ESB51296



Section Of Hip Model

This model is widely used in orthopedics, surgery, clinical teaching, occupational disease prevention, ergonomics, physical education, etc., with good auxiliary teaching and demonstration. Different colors are used to distinguish different positions, and the colors are bright and easy to attract students' attention, so you can to teaching demonstration, which promotes students' understanding and increases classroom fun. It made of food-grade PVC environmentally friendly materials, Enough The model Made in 1:1 ratio, showing the structural relationships of bones, muscles, nerves, blood vessels, etc. A rare aid tool for your in-depth research and study.

Diminutions : 4*32*26 cm

ESB51295



Section Of Foot Model

The structure, bone, muscle, blood vessels and other structural relationships at the joints of the human foot are detailed. Suitable for hospitals, medical schools, anatomical studies, teaching demonstrations, doctor-patient communication, etc. For patient education and anatomical study. Great for school teaching tool, learning display, and collectibles, also will be a great addition to your lab supplies Made of high quality PVC material for durability.

Diminutions : 4*32*26 cm

ESB51292

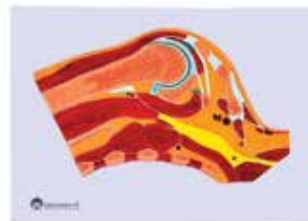


Section Of Knee Model

This model is based on the equal ratio of the knee joint of the human body, and the actual IRM section of the articulation is used as a reference for the profile design. Made in ecological PVC, hand painted, excellent finish. The model is hand painted with artisanal know-how. It shows in detail the structural relations between bones, muscles, nerves and blood vessels in the human knee articulation, with corresponding text descriptions, which is for medical education and medical communication. patient. This is a rare practical anatomical model in the teaching of surgical medicine and an ideal model for school education. Ideal for school education tools, learning displays and collectibles, it will also be an excellent addition to your laboratory supplies.

Diminutions : 4*32*26 cm

ESB51293



Section of Shoulder Model

This model is based on the equal ratio of the human body shoulder articulation, and the actual MRI section of the articulation is used as a reference for the design of the profile. It shows in detail the structural relations between bones, muscles, nerves and blood vessels in the human shoulder articulation, with corresponding text descriptions, which is practical for medical education and communication doctor patient. Made in ecological PVC, hand painted, excellent finish. This is a rare practical anatomical model in the teaching of surgical medicine and an ideal model for school education. Ideal for school education tools, learning displays and collectibles, it will also be an excellent addition to your laboratory supplies.

Diminutions : 4*32*26 cm

ESB51294





Muscles of the Human Leg Model, 23 Parts

This life-size model, detachable into 23 parts, is an important support for understanding the complete anatomy of the human leg. The superficial and deeper musculature, represented with great accuracy and detail, maximus - Soleus - Gastrocnemius

can be removed for closer examination. the mode also showing:

- Sartorius
- Ligaments
- Nerves
- Artery

Dimensions : 29*28*110cm

Weight : 11000g

ESB51072/23



Anatomy Of The Foot Model , 9 - Parts

This 9-part model shows significant structures of the foot such as muscles, nerves, vessels and ligaments.

Dimensions : 12*8*23cm

Weight : 600g

ESB51076

Muscles Of Human Leg Model 13 Parts

This 13-part model shows, in great detail, the anatomical structure of the leg, complete with superficial and deeper muscles, vascular structures, nerves and ligaments. The following parts are removable:



- Sartorius
- Long head of biceps
- Gluteus
- Maximus
- Soleus
- Gastrocnemius
- Gracilis
- Semitendinosus
- and Semimembranosus
- Rectus femoris
- Extensor digitorum longus
- Sole of foot - tensor fasciae latae

Dimensions : 88cm

Weight : 4700g

ESB51072



This Life Size Model is Composed Of 3 Parts.

The plantar aponeurosis and the flexor brevis can be removed to show the underlying network of muscles, tendons, vessels and nerves.

A deeper plantar dissection allows observation of the plantar muscles and plantar nerve branches. A superficial dorsal dissection shows ligaments, nerves and vessels.

Dimensions : 12*8*23cm

Weight : 650g

ESB51076/3





Anatomy Of The Foot Model, 1 Parts

This life size model represents a superficial dissection of the foot with the primary muscles and ligaments.

Dimensions : 12*8*23 cm

Weight : 420 g

ESB51229



Section Of Foot Model

This life size model shows a human foot sectioned along the sagittal plane.

Dimensions : 12*8*23 cm

Weight : 450 g

ESB51228



Normal and Abnormal Feet Model, set of 3

3 life size models representing

- Normal feet
- Flat and feet
- Arched feet.

Dimensions : 31.5*14.5*21 cm

Weight : 420 g

ESB51232



Arched Foot Model

This is life size arched foot model.

ESB51233



Flat Foot Model

This is life size flat foot model.

ESB51234

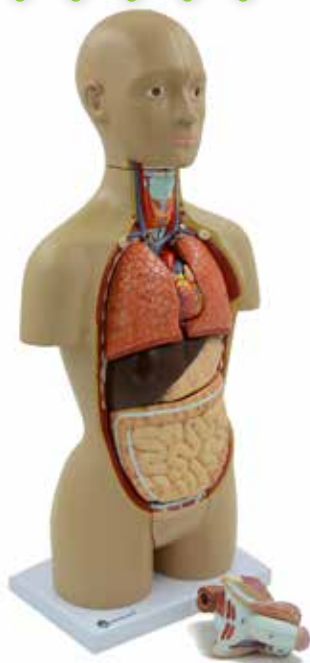


Normal Foot Model

This is life size norm foot model.

ESB51235





Human Torso Mini Dual Sex- 16 Parts 45 cm

Torso Mini Dual Sex This half life size torso is an excellent tool in basic anatomy teaching. Composed of 16 parts, as follows:

Head (2 parts) showing a section of the brain and the upper respiratory tract

Half of the brain, showing internal structures

2 lungs

Heart (2 parts) showing the atria, ventricles and valves

Liver with gallbladder

Stomach

Single piece, including small intestine, large intestine and pancreas Removable cover that expose interior of caecum

Male reproductive organs (2 parts)

Female reproductive organs (2 parts).

Dimensions : 11*19*43.5cm

Weight : 2200g

ESB51080

Human Torso Model Sexless 12 Parts 50cm

This half life size torso is an excellent tool in basic anatomy teaching. Composed of 12 parts, as follows:

Head (2 parts)(Right head shows the muscles and bone) showing a section of the brain and the upper respiratory tract .

Half of the brain, showing internal structures;

2 lungs ;

Heart (2 parts) showing the atria,

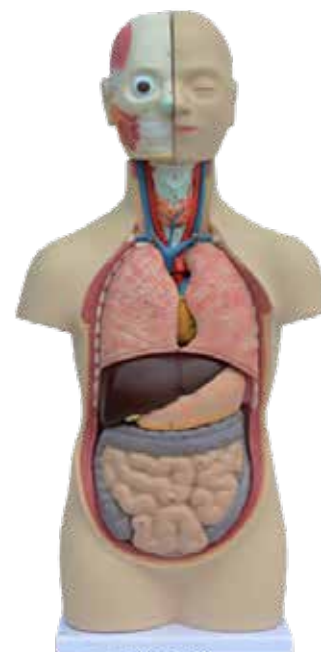
Ventricles and valves ;

Liver with gallbladder;

Stomach; single piece, including small intestine, large intestine and pancreas

Dimensions : 11*19*50 cm

Weight : 2300 g



ESB51629

Human Mini Torso Model ,50cm 12 Parts

Human Mini Torso Model ,50cm Height

This half life size torso is an excellent tool in basic anatomy teaching. Composed of 12 parts, as follows:

Head (2 parts) showing a section of the brain and the upper respiratory tract

Half of the brain, showing internal structures

2 lungs

Heart (2 parts) showing the atria, ventricles and valves

Liver with gallbladder

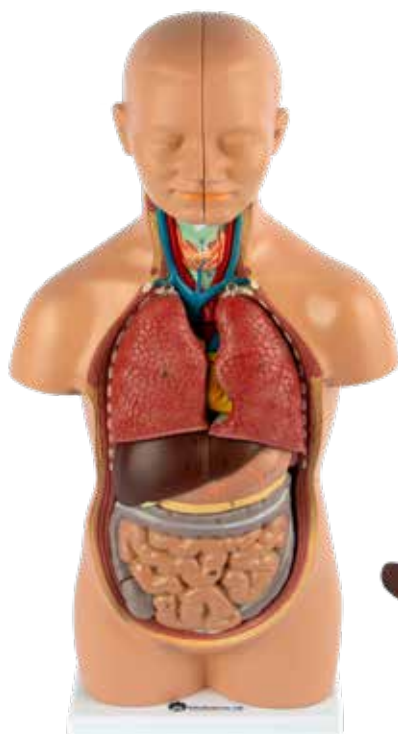
Stomach

Single piece, including small intestine, large intestine and pancreas Removable cover that expose interior of caecum.

Dimensions : 13*25*52cm

Weight : 3000g

ESB51079



Human Torso Model Sexless 12 Parts 85 cm

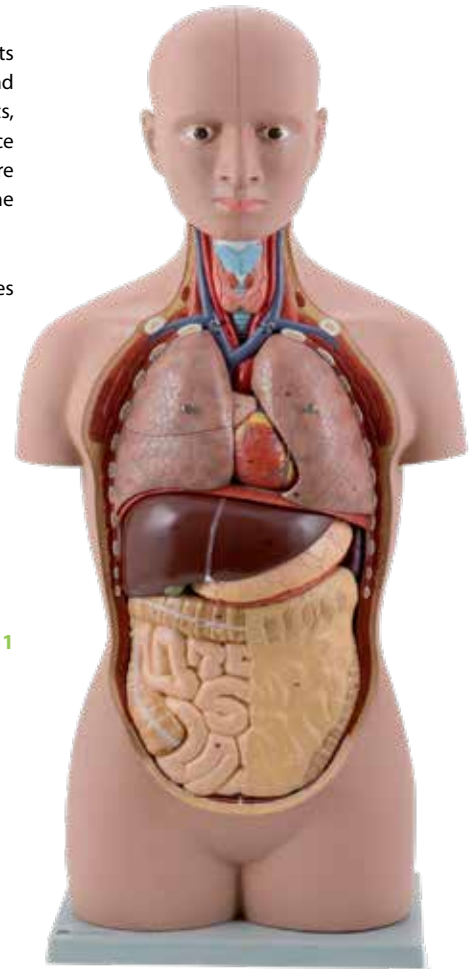
life-size sexless Human Torso is dissectible into 12 parts. Made with accurate in all of its detailing, it is a useful tool to show the human anatomy, the structures are numbered and identified on the accompanying key card. The head is removable and divided into 2 parts, Showing the inner structure of the brain. The neck is dissected through the ventral surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open, providing an unrestricted view of the internal organs and structures. the 12 Parts are as follow :

- Head, divided into 2 parts, showing a section of the brain and the upper respiratory tract
- 1 Part Half of the brain, divided along the longitudinal fissure to expose internal structures and vessels
- 2 Parts Right and left lungs, showing the bronchial tree and vasculature
- 1 Part Heart
- 1 Part Liver with gallbladder
- 2 Parts Stomach
- 1 Part Pancreas, duodenum and spleen with vessels and ducts
- 2 Parts : Small and large intestine with removable window in caecal region
- 1 Part Half Body

Dimensions : 89*41*23 cm

Weight : 10300g

ESB51631



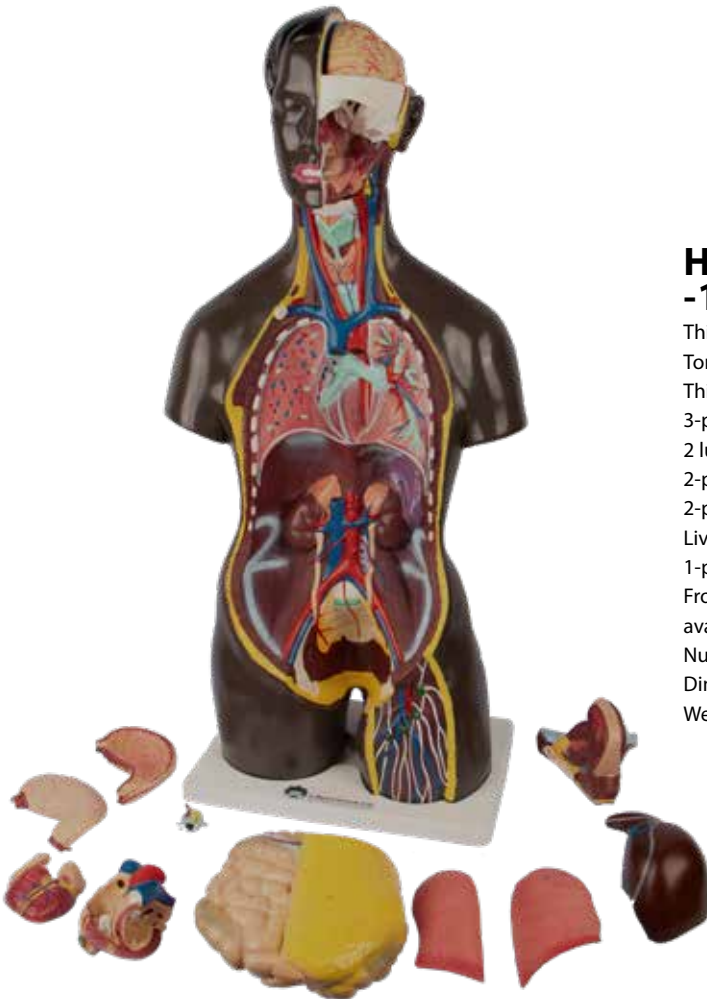
Human Torso Sexless Open Back -13 Parts

This sexless life size torso is composed of 13 parts. Accurate in all of 85cm Torso Model asexual 13 Parts

This popular school torso is supplied with the following removable parts:

- 3-part head
 - 2 lungs
 - 2-part heart
 - 2-part Stomach
 - Liver with gall bladder
 - 1-part intestinal tract
 - Front half of kidney
- available in Africa skin color
Numbered with keycard
Dimensions : 41*23*70 cm
Weight : 9200g

ESB51082SP





Human Torso Model Sexless, 16 Parts 85 cm

This life size sexless torso, composed of 16 parts, is appropriate for any human anatomy course. All of the major organ systems are represented with great attention to accuracy and detail.

Structures are numbered and identified on the accompanying key.

- half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
 - eye with optic nerve and extraocular muscles
 - descending thoracic aorta and esophagus
 - right and left lungs showing the bronchial tree and vasculature
 - 2-part heart showing the atria, ventricles, cardiac valves and section through the ventricular heart wall
 - half of one kidney, sectioned along the frontal plane to show the internal structure and vessels
 - kidney, urethra and urinary bladder with prostate (removable in 2 parts)
 - stomach, showing muscular and vascular structures
 - pancreas, duodenum and spleen with vessels and ducts
 - liver
 - small and large intestine with removable cover over portion of caecum
- Dimensions : 89*41*23cm
Weight : 9235g

ESB51636

Torso Sexless Open Back - 17 Parts

This sexless life size torso is composed of 17 parts. Accurate in all of its detailing, this model is appropriate for use in any human anatomy classroom. Anatomical structures of the major body systems are numbered and identified on the accompanying key. The head is sectioned to expose one half of the brain. The neck is dissected through the central surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open to afford an unrestricted view of internal organs and associated structures. The back is dissected revealing the muscular layers, vertebral column, spinal cord and nerve branches. One thoracic vertebra is removable for detailed examination of its structure and association with spinal cord.

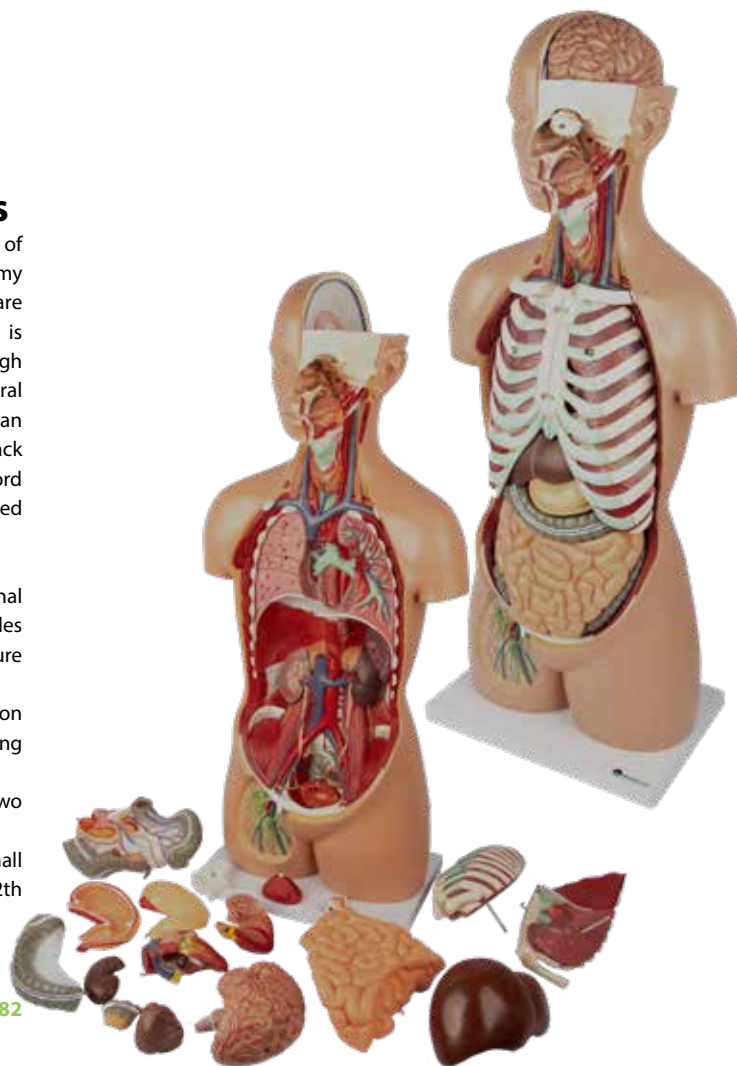
Removable parts include the following:

Half of the brain, divided along the longitudinal fissure to show internal structure and blood vessels
Eye with optic nerve and extraocular muscles
Right and left lungs showing the bronchial tree and vasculature
Descending thoracic aorta and oesophagus
2-part heart showing the atria, ventricles, cardiac valves and section through the ventricular heart wall
Half of one kidney, sectioned along the frontal plain to show the internal structure and vessels
Kidney, urethra and urinary bladder with prostate (removable in two parts)
Stomach showing muscular and vascular structures
Pancreas, duodenum and spleen with vessels and ducts
Liver
Small and large intestine with removable cover over portion of caecum
12th thoracic vertebrae with spinal cord.

Dimensions : 41*23*70 cm

Weight : 9200g

ESB51082



Human Torso Model Sexless, 18 Parts 85 cm

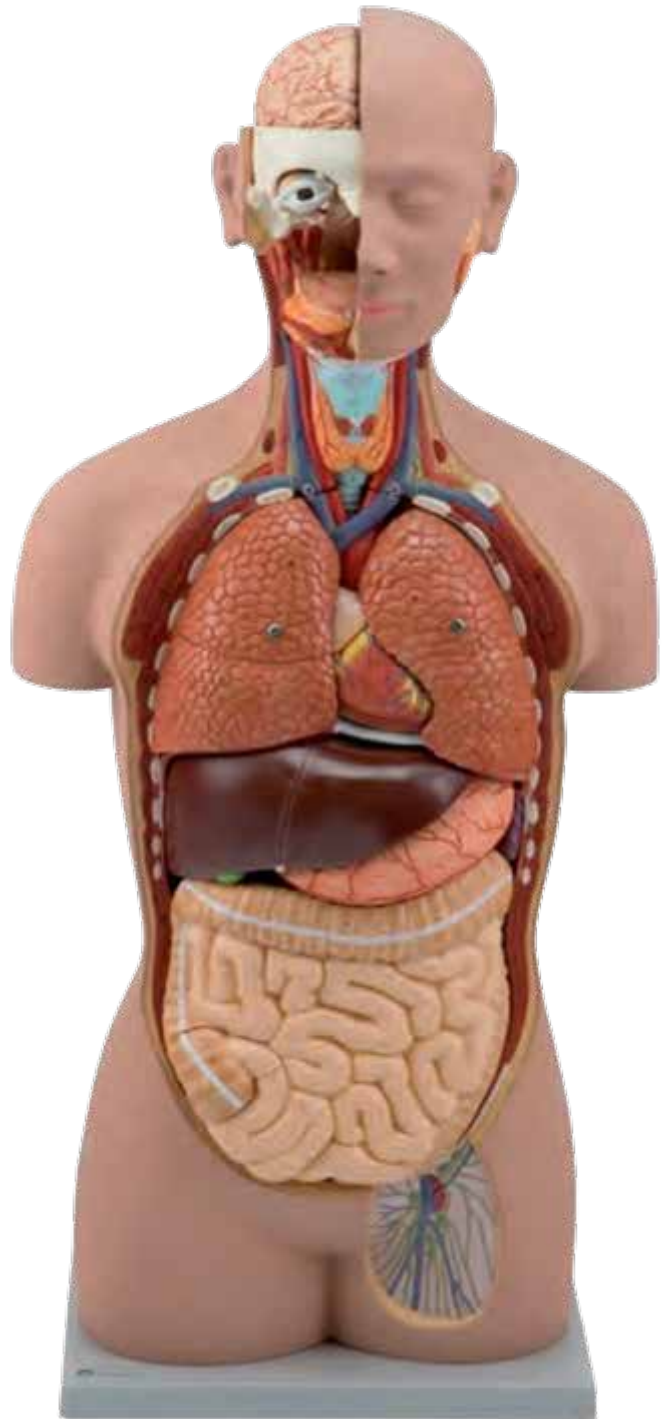
This life size torso is composed of 18 parts, providing a realistic and detailed reproduction of the internal organs. The head is sectioned to expose one half of the brain. The neck is dissected through the ventral surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open to afford an unrestricted view of internal organs and associated structures. Anatomical structures of the major body systems are numbered and identified on the accompanying manual.

- Half of the brain, divided along the longitudinal fissure to expose internal structures and blood vessels
- Eye with optic nerve and extraocular muscles
- Trachea
- Descending thoracic aorta and esophagus
- right and left lungs (2 parts each), showing the bronchial tree and vasculature
- liver with gallbladder
- half of one kidney, sectioned along the frontal plane to show the internal structure and vessels
- 2-part heart showing the atria, ventricles, cardiac valves and section through the ventricular heart wall
- stomach
- pancreas, duodenum and spleen with vessels and ducts
- small and large intestine with removable window in caecal region
- removable cover in the groin area

Dimensions : 89*41*23 cm

Weight : 9300g

ESB51637



Human Dual-Sex Torso Model, 25 Parts

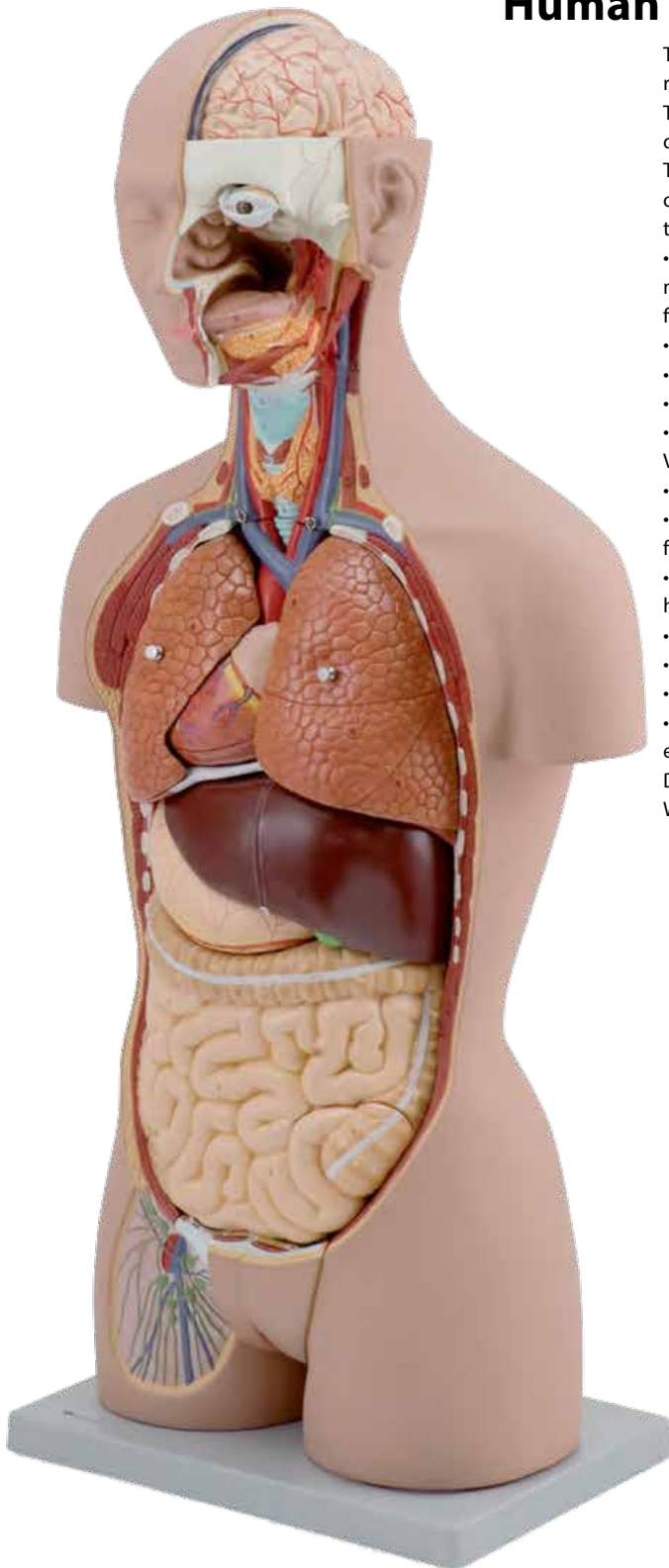
This life size closed back torso is composed of 25 parts that feature the most realistic reproductions of anatomical structures in their most intimate detail. The head is sectioned to expose half the brain. In addition, the neck is dissected to expose muscular, neural, vascular and glandular structures. The thorax and abdomen are completely open, providing an unrestricted view of all internal features. Significant structures are numbered and referenced on the accompanying key.

- Separate male and female urogenital systems fit interchangeably into the main portion of the torso. Half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
- Eye with optic nerve and extraocular muscles
- Descending thoracic aorta and esophagus
- Trachea
- Right and left lungs (2 parts each), showing the bronchial tree and vasculature
- Liver with gallbladder
- Half of one kidney sectioned along the frontal plane, showing the internal features and vessels
- 2-part heart with excellent depiction of atria, ventricles, valves and muscular heart wall
- Stomach
- Pancreas, duodenum and spleen with vessels and ducts
- Small and large intestines with removable cover over portion of caecum
- Male and female urogenital systems (4 parts each) sectioned medially with excellent views of internal structures

Dimensions : 23*41*89.5cm

Weight : 10400g

ESB51641



Human Dual Sex Exchange-able Deluxe Torso, Open Back, 27 Parts

This life size torso with open back is composed of 27 parts and provides an exceptionally realistic reproduction of anatomical structures in their finest detail. All of the body systems are represented with full accessibility. This model is without question a valuable addition to any biology or anatomy course. The open back exposes muscular layers as well as the vertebral column and associated nerve branches. A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details. The head is open and the brain is fully exposed on one side. The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant structures are numbered and referenced on the accompanying key. The dissectable male and female urogenital systems are interchangeable.

Removable structures include the following:

Eye with optic nerve and extraocular muscles

Half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels

Trachea

Descending thoracic aorta and oesophagus

Right and left lungs (2 parts each), showing the bronchial tree and vasculature Liver with gallbladder

Half of one kidney sectioned along the frontal plane, showing the internal structure and vessels

2-part heart with clear depiction of atria, ventricle, valves and section of heart wall

Stomach dissected in 2 parts

Pancreas, duodenum and spleen with vessels and ducts

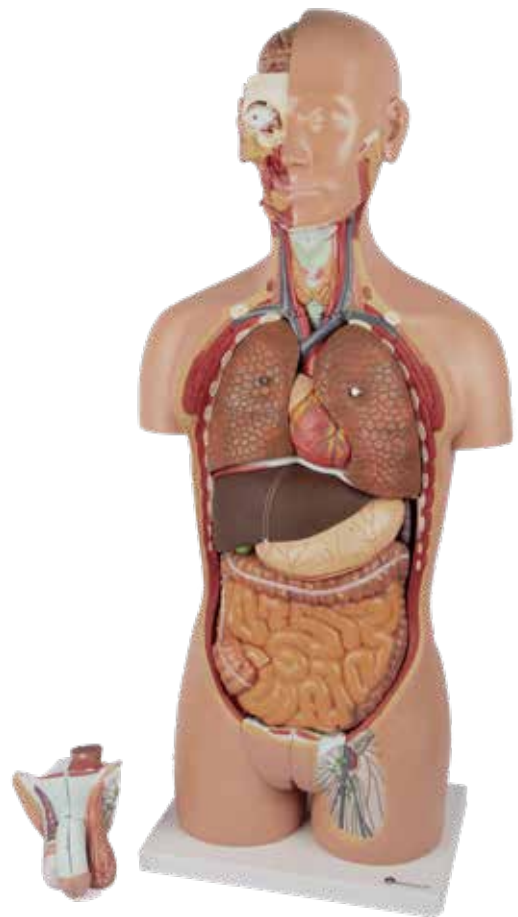
Small and large intestines with removable cover portion of caecum Male and female urogenital system (4 parts each) sectioned medially with excellent views of internal structures

Thoracic vertebra with spinal cord

Dimensions : 23*41*89 cm

Weight : 10450g

ESB51081





Human Dual-Sex Torso, 28 Parts, 85cm, Open Back

This life size torso with open back is composed of 28 parts and provides an exceptionally realistic reproduction of anatomical structures in their finest detail.

All of the body systems are represented with full accessibility.

A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details.

The head is open and the brain is fully exposed on one side.

The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant features are numbered and referenced on the accompanying manual.

The dissectible male and female urogenital systems are interchangeable.

Dimensions : 23*41*89 cm

Weight : 10500g

ESB51638



Human Dual-Sex Muscular Torso, 28 Parts, 85cm Open Back

This life size torso with open back is composed of 28 parts and provides an exceptionally realistic reproduction of anatomical structures in their finest detail.

All of the body systems are represented with full accessibility.

The left side exposes all significant superficial and deeper muscles with vessels and bones.

The open back shows muscular layers as well as the vertebral column and associated nerve branches.

A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details.

The head is open and the brain is fully exposed on one side.

The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant features are numbered and referenced on the accompanying manual.

The dissectible male and female urogenital systems are interchangeable.

Dimensions : 23*41*89cm

Weight : 10500g

ESB51639





Dual-Sex Muscular Torso, 28 Parts, Open Back 85cm

Life size, it is composed of 28 parts and all body systems are represented and easily accessible. The left side exposes all significant superficial and deep muscles with vessels and bones. The open back shows muscular layers as well as the vertebral column and associated nerve branches. A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details.

The head is open and the brain is fully exposed on one side.

The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant features are numbered and referenced on the accompanying manual.

The dissectible male and female urogenital systems are interchangeable.

Dimensions : 3*41*89 cm

Weight : 5000 g

ESB51640





Human Torso Disc Model

This life-size torso model is sliced horizontally into 24 pieces, giving an idea of how computer tomography and magnetic resonance work. Each slice can be rotated and removed for closer examination of its anatomical detail, which is reproduced with great accuracy.

All structures including muscles, nerves are numbered and identified on the accompanying manual.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*15*17 cm,

Weight : 1000 g,

ESB51626

Biology



Nasogastric & Tracheostomy Model Life Size Torso

The N(aso) G(astric) & Tracheostomy Torso is a 3-dimensional, 2-sided hand-painted torso, covered with a transparent lid, shows the sagittal section including the nose, mouth, pharynx, trachea, esophagus, lungs and stomach. The other side depicts the anatomically correct view of a human torso for teaching the proper method of measuring the NG tube's length. Torso also features a tracheostomy to demonstrate a variety of care techniques.

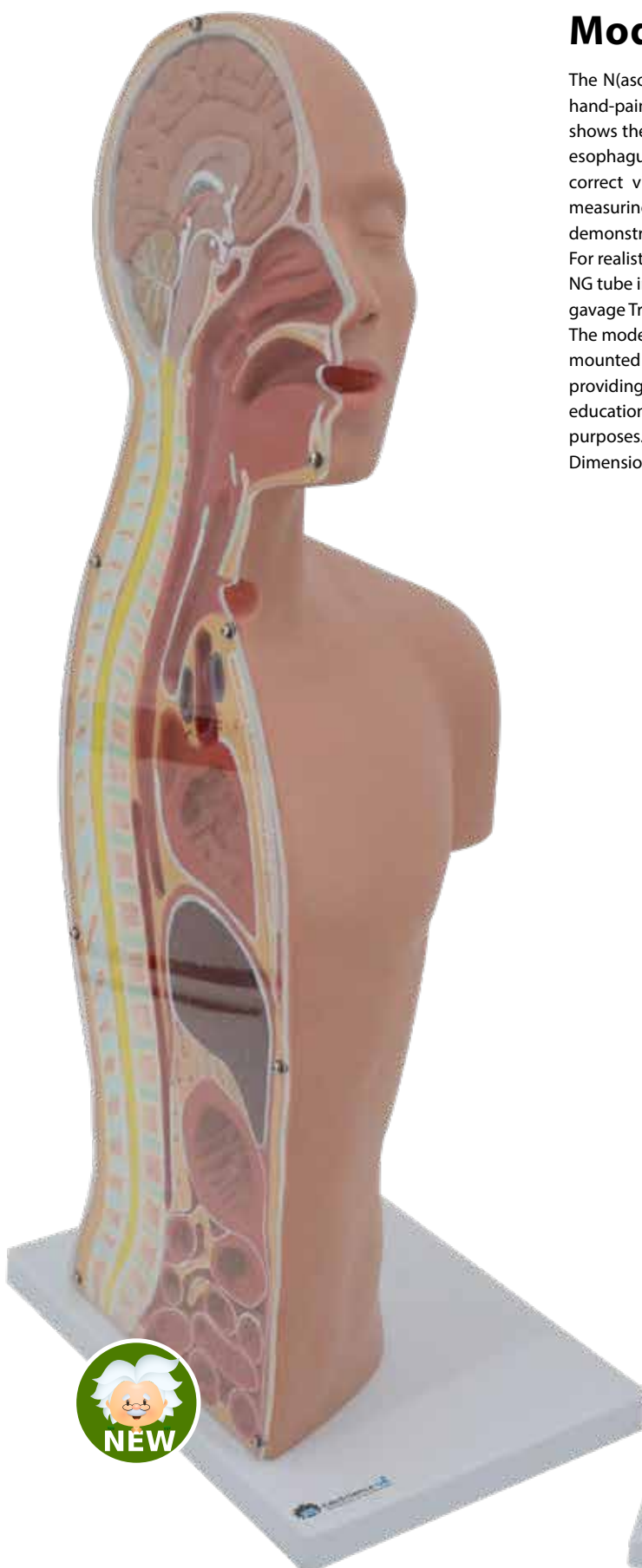
For realistic practice of the following procedures:

NG tube insertion, irrigation, monitoring and removal Gastric lavage and gavage Tracheostomy care and suctioning.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 30*42*92 cm

ESB51627





Autonomic Nerves System Model

This model shows the outlook of automatic nervous system, including sympathetic nervous system and parasympathetic nervous system.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 15*35*75 cm

Weight: 4000 g

ESB51212



Nervouse System Model

This 1/2 life-size relief model shows a general view of the peripheral and central human nervous system: the head is open to reveal the brain and the cerebellum; the pathway of the main nerves is well illustrated in relation to the skeleton.

Dimensions : 89*29*1cm

Net weight : 5000g.

ESB51143



Human Circulatory System Model

Model - 2 Parts

The model represents a general view of the human circulation. It includes the heart (2 parts), lungs, liver, spleen, kidneys and relevant connections with the pulmonary and systematic circulatory pathways.

Dimensions : 93*33*14cm

Net weight : 5000g.

ESB51083





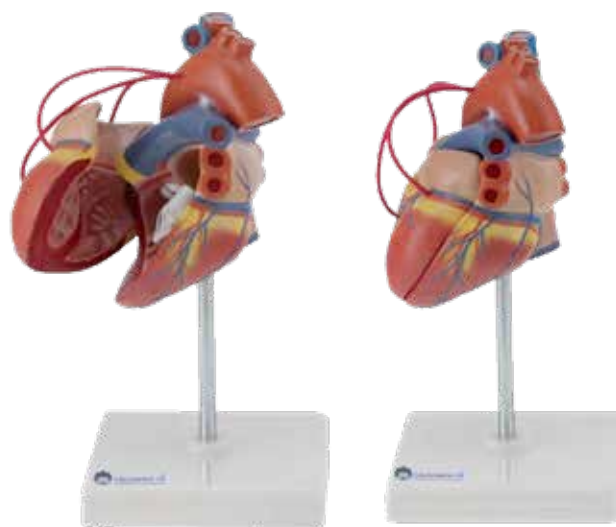
Heart Model,Life Size

This life size model shows the compensatory hypertrophy heart disease. This pathology is characterized by the myocardium thickening of the muscular fibres of the left ventricle. Hypertrophy heart disease is the complication of a chronic hypertension. The model is divided in 2 parts and mounted on base with stand.

Dimensions : 26*11*12cm

Net weight : 380g

ESB51084



Heart Pass Model,Life Size

This life-size two-part model provides an extremely detailed illustration of the anatomy of the human heart with three coronary bypasses. The anterior wall can be detached to expose the inner chamber and valves.

Dimensions : 26*11*12cm

Net weight : 380g

ESB51085



Heart Model,2 Times Enlarged

This 2X life-size model describes all the main structures of the human heart in great detail. The right part is detachable, to expose the inner chambers and valves. The left auricle and ventricle wall can be removed to show the atrium, the mitral valve, the ventricle and papillary muscles.

Dimensions : 17*15*18cm,

Net weight : 1000g,

ESB51086



Heart Model Giant 3 Times Enlarged

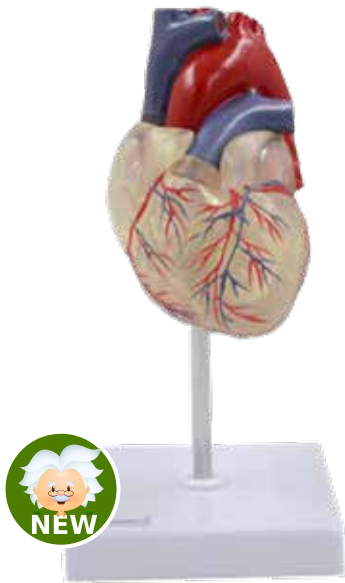
Life size. It is sectioned along the anterior plane to show internal structures, including the cardiac valves and the comparative morphology of the right and left ventricles. The right atrium is also removable.

Dimensions : 26*29*31cm

Net weight : 3000g

ESB51087





Transparent Heart Model, Life Size

This life-sized transparent model offers a detailed view of the anatomy of the human heart. The front portion of the heart can be easily detached, enabling a closer inspection of its internal structures. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 26*11*12cm

Net weight : 380g

ESB51084/T



Heart Model, With Thymus, Life Size

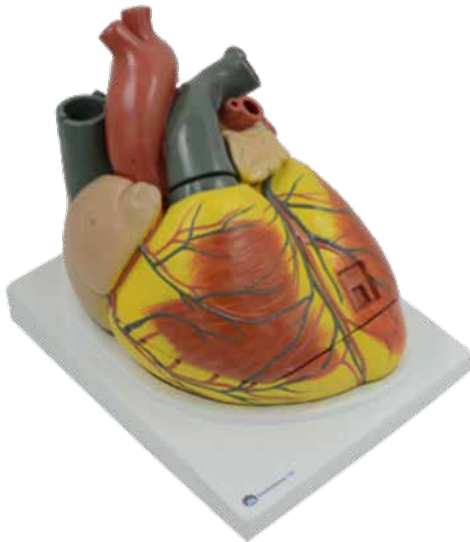
This life-sized heart model consists of three parts, revealing the intricate anatomy of the human heart in conjunction with the thymus gland. The thymus and the front portion of the heart can be detached, allowing for a detailed examination of internal structures such as the left and right atria, ventricles, valves, and papillary muscles.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*11*22cm

Weight : 250g

ESB51239



Heart, 3 Times Enlarged, With Base

Enlarged three times its life size, this model is sectioned along the anterior plane to showcase internal structures, notably the cardiac valves, and offer a comparative analysis of the morphology between the right and left ventricles. Additionally, the right atrium can be detached for further exploration. Enhanced with a base, this model provides stability for educational or display purposes.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 25*24*29cm

Weight: approx. 3520 g

ESB51087/B



Heart With Vessel

This is a life-size model of the normal human heart. The anterior heart wall can be removed for internal examination. Additionally, there are four staged vessels on the base.

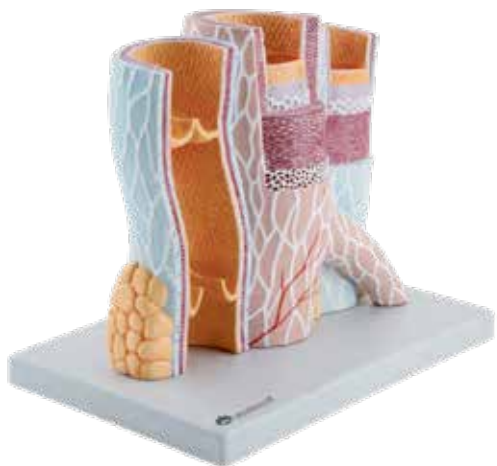
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*14*23cm

Weight : 450g

ESB51240





Structure Of Artery And Vein Model

An important support for understanding the difference between artery and vein histology. In this single-piece model one artery and two veins are represented in great detail. One vein is longitudinally sectioned to show the closed and open venous valves; the artery and the right vein are cross-sectioned so the different layers, such as tunica media, elastic membrane and tunica adventitia, can be easily recognized. 20X life size.

ESB51090



Blood Cell Model, 2000 Times Enlarged

Enlarged 2000 times, this model shows the various types of blood cells, including red blood cells, white blood cells (lymphocytes, monocytes, neutrophils, eosinophils and basophils) and blood platelets.

Dimensions : 55*39*8cm

Net weight : 3300g

ESB51089



Lung Demo Model

This simple, yet effective apparatus consists of two sacks which represent the lungs, a rubber membrane which serves as the diaphragm and a clear plastic enclosure which models the chest cavity. By making the diaphragm relax and contract the students can see how the lungs are emptied and filled with air.

ESB51096



Pulmonary Alveoli Model

This enlarged alveolus model showcases the alveolus, alveolar epithelium, alveolar sacs, alveolar ducts, and alveolar capillaries in detail. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51299



Lobuli Pulmonum Model

This magnified lobule exhibits the terminal bronchiole, respiratory bronchiole, alveolar epithelium, and other associated structures. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 23*18*40 cm , Weight : 1130 g

ESB51300

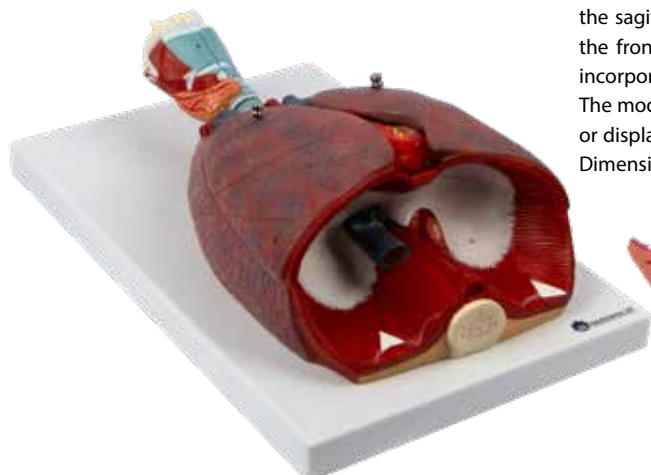


Larynx ,Heart And Lung Model

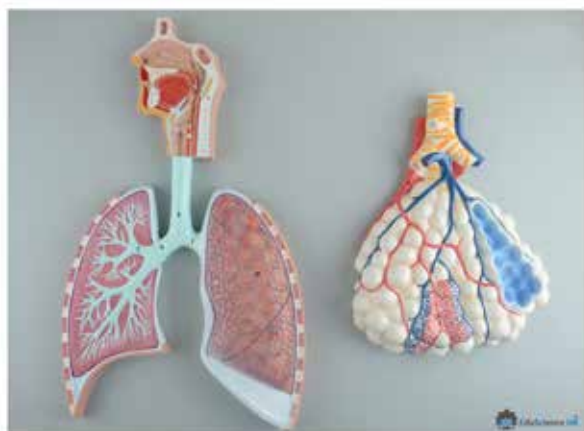
This life-sized replica of the human respiratory system is meticulously crafted, comprising seven parts for comprehensive understanding. It includes the larynx dissected along the sagittal plane, providing detailed insight. Additionally, the lungs are dissected along the frontal plane, allowing for thorough examination. Furthermore, a two-part heart is incorporated into the model, enhancing its educational value.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions :: 33*23*31 cm Weight: 1200 g



ESB51092



Human Respiratory System Model With Magnified Alveolus

This relief model of the respiratory system offers a detailed representation, encompassing the oronasal cavity, larynx, trachea, primary bronchi, and bronchial tree. The upper respiratory tract is sectioned along the medial sagittal plane, providing a clear view. Additionally, an enlarged alveolus with blood vessels, approximately 150 times life size, is depicted with exceptional internal detail, enhancing understanding of respiratory anatomy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions :55*39*5 cm

Net weight : 2500 g

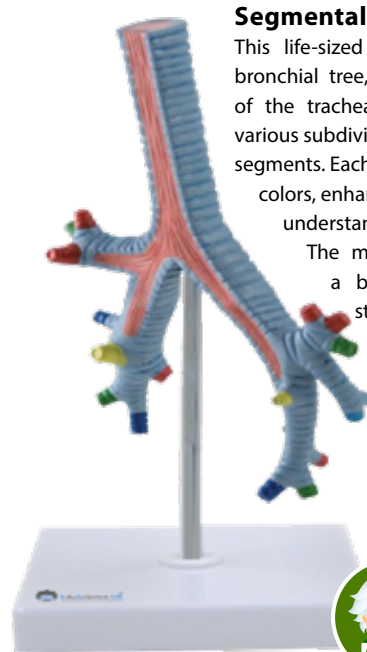
ESB51094



Larynx, Trachea and Bronchial Tree Model

This life size model sectioned longitudinally to reveal details of internal structures, including larynx, trachea, left and right main bronchus, segmental bronchi, etc., The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51302



Segmental Bronchi Model

This life-sized model vividly illustrates the bronchial tree, starting from the bifurcation of the trachea and continuing through its various subdivisions to the bronchopulmonary segments. Each segment is depicted in distinct colors, enhancing visibility and aiding in the understanding of respiratory anatomy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions :15*22*26 cm

Weight : 160 g

ESB51303



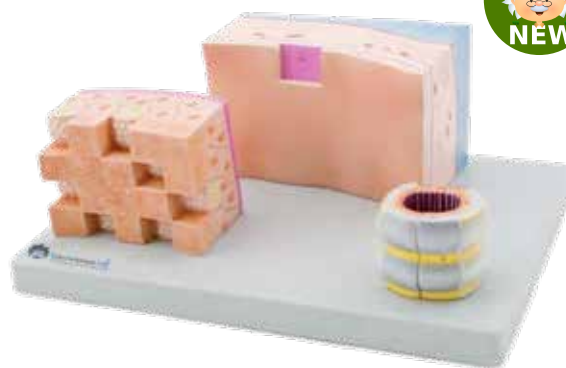


Trachea & Bronchial Tree Model

This model shows trachea, left and right main bronchi, lobular bronchi and segmental bronchi. Life size

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51304



Trachea Section Model

This item consists of three distinct models mounted on a single base. The first model replicates a cross-section of the human trachea enlarged to three times life-size. It can be longitudinally divided into two parts, providing a detailed view of the inner anatomy. The second model features an enlarged cross-section of the anterior tracheal wall, displaying all layers from the tracheal cartilage to the epithelium. Lastly, the third model showcases a magnified view of the pseudostratified ciliated epithelium, offering intricate detail of the typical ciliated cells and mucous cells.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 33*23*13 cm

Weight: 1100 g

ESB51305



Larynx Model, 2 Times Enlarged

This 5-part model is sectioned longitudinally to reveal intimate details of internal structures, including the hyoid bone, cartilages, ligaments, muscles, vessels, nerves and thyroid gland. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 24*14*16 cm

Weight : 800 g

ESB51091



Cartilages Laryngis Model

The model is enlarged three times its actual size to provide a clearer view of the relationship between laryngeal cartilage and the hyoid bone. This enlargement allows for better visualization and understanding of the anatomical structures involved.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 15*15*24 cm

Weight : 800 g

ESB51306



Larynx Model, Life Size

This life size model can be opened into 2 parts to show the anatomy of the human larynx and related structures: hyoid bone, cartilages, ligaments, muscles, vessels, nerves and thyroid gland.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 5*5.5*10 cm

Weight : 170 g

ESB51093





Nasal Cavity Model, Life Size

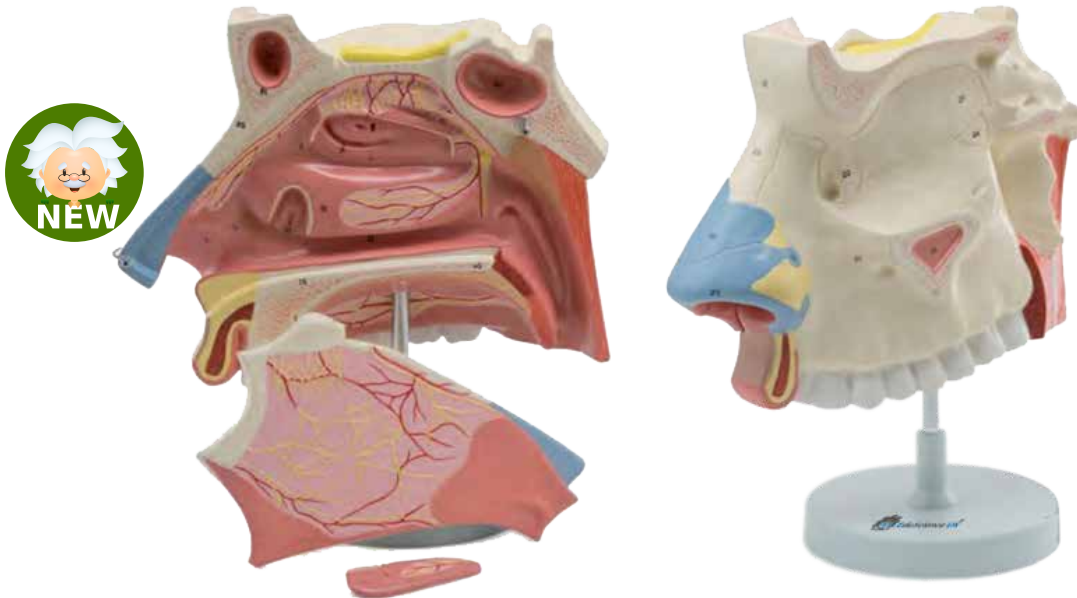
This life-sized model vividly depicts the bronchial tree, starting from the bifurcation of the trachea and continuing through its subsequent subdivisions to the bronchopulmonary segments. Each segment is presented in distinct colors, facilitating clear visualization and comprehension of the respiratory system.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 15*25*11 cm

weight : 600 g

ESB51098



Nasal Cavity Model 3 Times Enlarged, 3 Parts

Enlarged to three times life size, this model displays a medial section of the nasal cavity. The nasal septum and a portion of the olfactory epithelium are detachable, allowing for a clear view of the deep internal structures.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 15*20*30 cm

Weight: 1000 g

ESB51098/3





Nasal Cavity Model

Full size cut-away normal model depicts a near median section through the nose and nasal passages. Details include nasal cavity, soft and hard palate, uvula, Eustachian tube and pharyngeal tonsil. Reverse side shows ethmoid and maxillary sinus cavities. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*11*18.5 cm

Net weight : 240 g

ESB51310



Nasal Cavity , Oral Cavity, Throat , Larynx Model

This life size model shows a section of the nasal cavity.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12*13*26 cm

Weight : 450 g

ESB51097



Larynx With Tongue Model, 5 Parts

This model consists of 5 parts and shows the anatomical structure of laryngeal cartilages, laryngeal muscles, and laryngeal cavity. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19.7*11*11 cm

Weight: 500 g

ESB51308



Head With Larynx Muscles Model

This life size head model is dissociated along the sagittal plane into 2 halves. Details of the oronasal cavity and larynx as well as musculature of the pharynx are exceptionally well represented.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12.5*15*23 cm

Weight : 1000 g

ESB51159



Human Digestive System Model

This life size model shows the human digestive tract from mouth cavity to rectum. The oral cavity, the pharynx and the first part of the esophagus are dissected along the medial sagittal plane.

The liver is shown together with the gall bladder and the pancreas is dissected to expose internal features. The stomach is open along the frontal plane; the duodenum, caecum, part of the small intestine and the rectum are open to expose the interior. The transverse colon is removable.

An additional relief model of the head shows the anatomy of the mouth with salivary glands.

The model is securely mounted on a base, providing stability for educational or display purposes.

Mounted on board.

Dimensions : 91*31*11cm,

Weight : 5000 g

ESB51099



Appendix And Caecum Model

This model shows wall of caecum and appendix, 2 parts..

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51320



Human Anus Model

This life size model shows a frontal section of the human anus. Structures of the rectum, including the internal and external sphincter muscles, mucous membrane, ampullae and anal valves are readily visible.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 20*15*12 cm

Weight : 170 g

ESB51318





Human Digestive System Model, 3 Parts

This life size model shows the human digestive tract from mouth cavity to rectum.

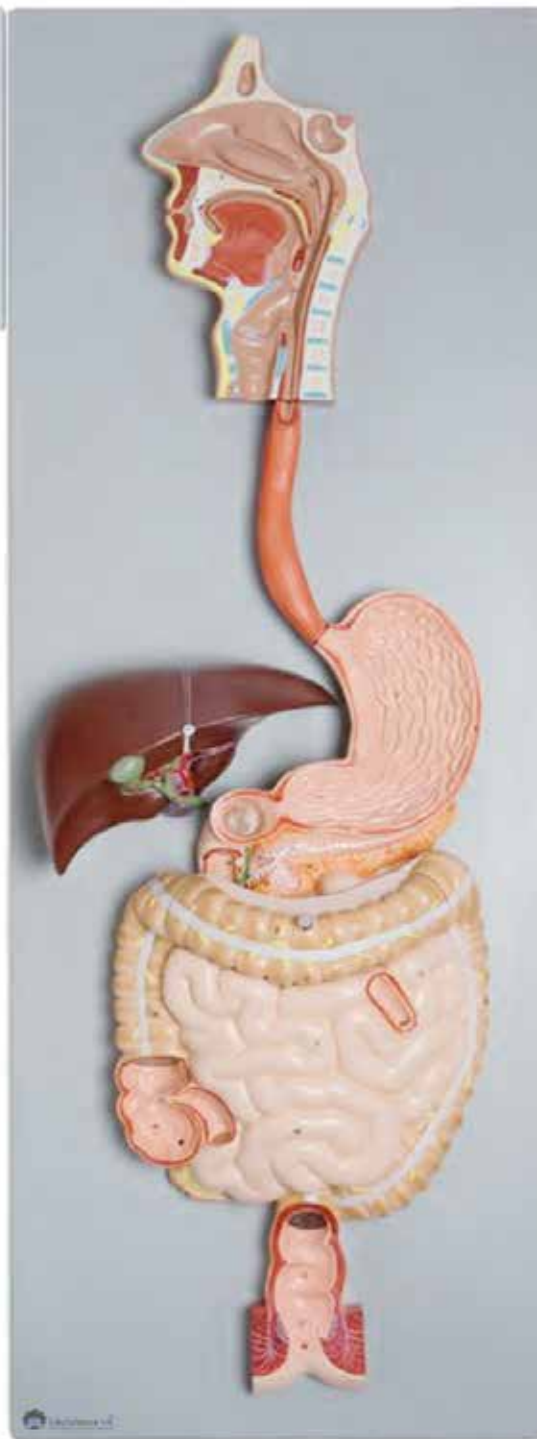
The oral cavity, the pharynx and the first part of the esophagus are dissected along the medial sagittal plane. The liver is shown together with the gall bladder and the pancreas is dissected to expose internal features. The stomach is open along the frontal plane; the duodenum, caecum, part of the small intestine and the rectum are open to expose the interior. The transverse colon is removable. An additional relief model of the head shows the anatomy of the mouth with salivary glands.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 90*32*14 cm

Weight : 2200 g

ESB51099/3



Stomach Model & Associated Organs Of The Upper

Abdomen, 6 Parts

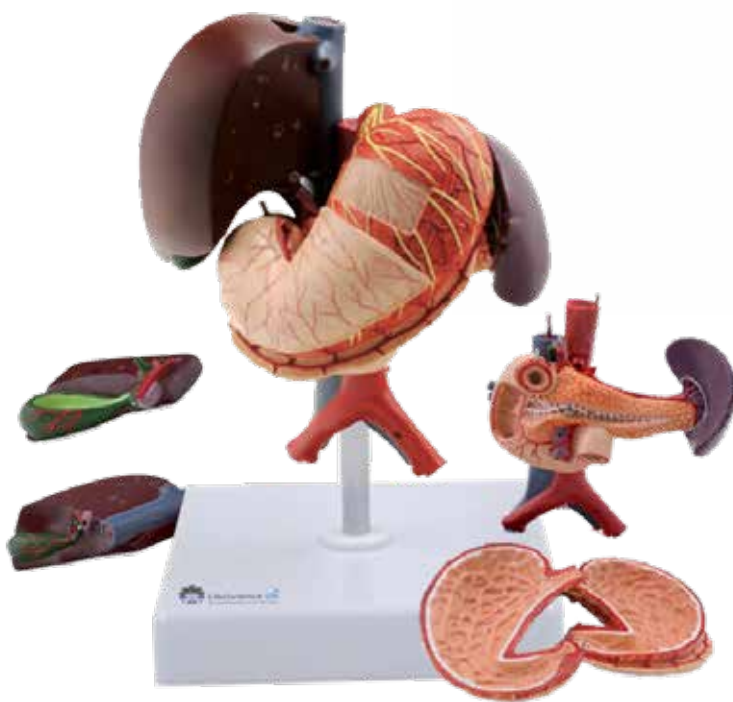
This life size model has the following features, 2-part stomach along with the pancreas, spleen and duodenum (shown in open section), gallbladder with bile ducts, abdominal aorta, vena cava, mesenteric and iliac vessels. 2 sections of the liver-gallbladder are interchangeable...

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 25*15*28 cm

Weight : 2000 g

ESB51322





Liver, Pancreas & Duodenum Model

This life size model, 2-part model, shows the liver with gallbladder, pancreas and partly dissected duodenum. It includes inferior vena cava, abdominal aorta and pancreatic ducts.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12*14*33 cm

Weight : 600 g

ESB51317



Structure Of Stomach Wall Model

This one-piece model, 150X life size, is an important tool to study the histology of the most important organ of the digestive system:

the stomach. All the different layers from the epithelium to the serous coat are represented with great accuracy and detail. The principal structures, including different cellular types, capillary and lymphatic vessels are numbered and identified on the accompanying manual (included).

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 30*20*38cm

Weight : 2000 g

ESB51326



Human Intestinal villus Model

This model shows finger-like protrusions represent villi, cavities crypts. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Mounted on board.

Dimensions : 19*15*21 cm

Weight : 560 g

ESB51325



Intestinal Villi Model

This enlarged 400 times model shows the structure of intestinal villi under a microscope.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Mounted on board.

Dimensions : 27*11*43 cm

Weight : 1000 g

ESB51324





Diseased Stomach Model

This life size model is dissected and it show the internal structure of the stomach, including the mucosa, the pylorus, a section of the gastric wall. The model also shows the superficial muscular layers and the blood vessels, diseases also presented there, The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*18*15 cm

ESB51170



Stomach Model, 2 Times Enlarged

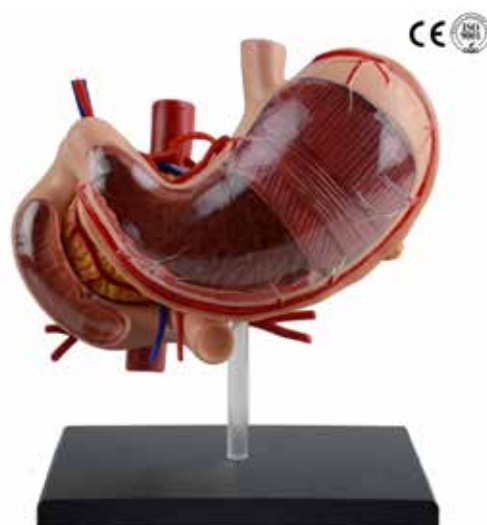
This model is dissected along the medial plane and can be opened to show the internal structure of the stomach, including the mucosa, the pylorus and a section of the gastric wall. Superficial dissections expose the longitudinal, circular and oblique muscle layers, with nerves and vascular structures.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 22*16*27 cm

Weight : 1000 g

ESB51103



Stomach Model 4D

4D Stomach model life size model showing details, Dissctable into 12 parts

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*18*15 cm

ESB51101



Stomach Model, Life Size

This life size model is dissected along the medial plane and can be opened to show the internal structure of the stomach, including the mucosa, the pylorus, a section of the gastric wall. The model also shows the superficial muscular layers and the blood vessels.

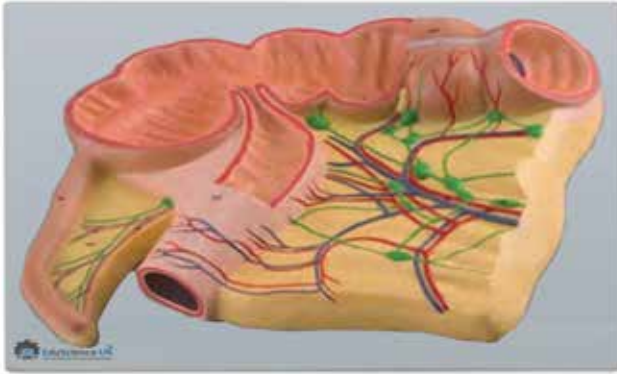
The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Size : 19*13*24 cm

Net weight : 500 g

ESB51102





Caecum And Appendix Model

This model is 2X life size; it shows the open caecum with appendix ileum, ilocaecal orifice and valve. Blood vessels and lymph nodes are also represented.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 26.5*19.5*5.5 cm

Weight : 900 g

ESB51100



Organs Of The Endocrine System Model

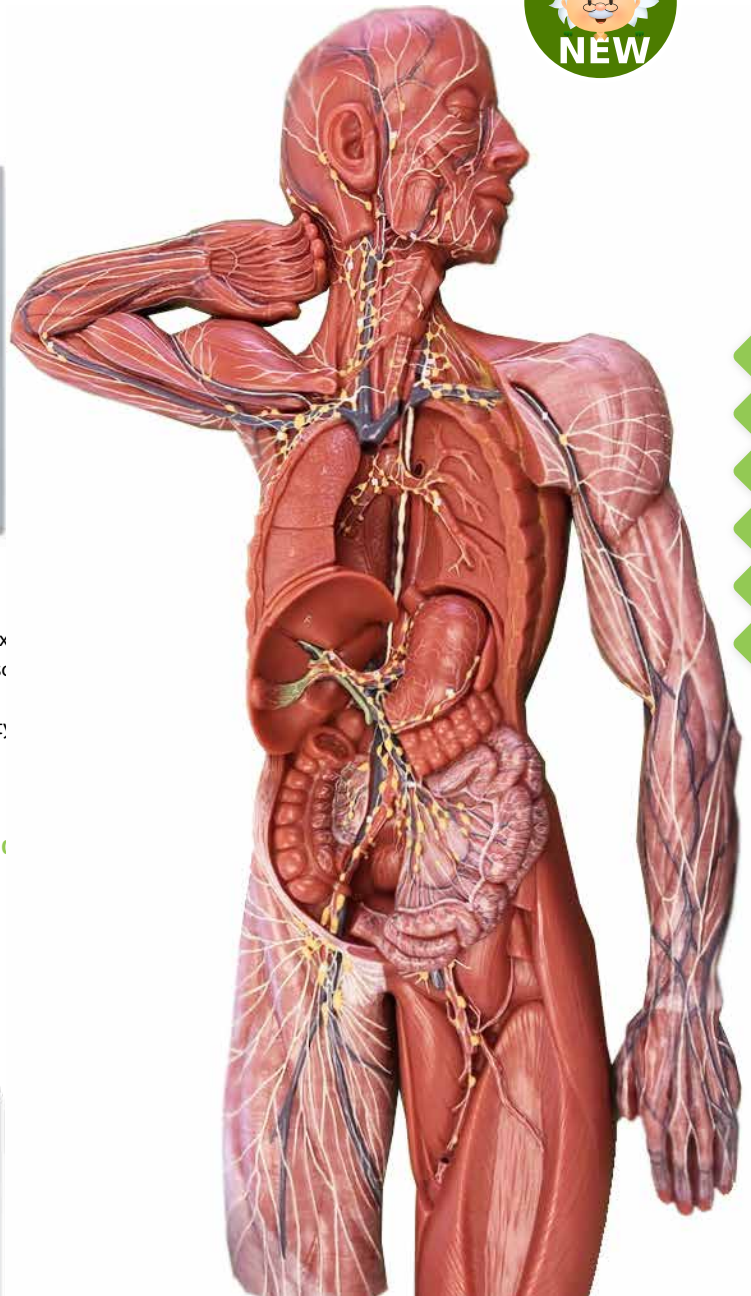
This model shows the external structure of the following human endocrine organs: pituitary gland, thyroid gland, adrenal gland, testis, pancreas, parathyroid gland, ovary.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 53*38*7 cm

Weight : 1500 g

ESB51341



Lymphatic System Model

This model shows the structure of lymphatic system.

The model shows the composition and structural characteristics of the lymphatic system, with a total of 63 indicators.

ANATOMICALLY ACCURATE AND LIFE SIZE

Great for schools biology lessons, patient education and also a little Halloween fun!

HUMAN SKELETON SYSTEM

The anatomy of the skeleton is labeled on a realistic picture and makes for an easy study of the bones of the body.

HUMAN SYSTEM

Every part of the human body's system is labeled in this colorful detailed

ESB51340





Liver Model, Life Size

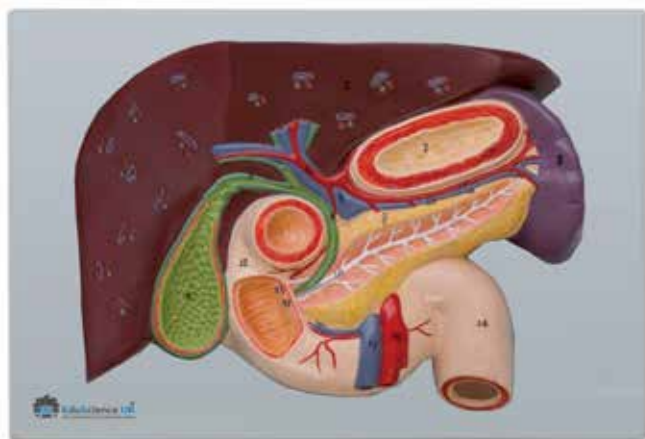
This realistic model reproduces a life size liver with the gall bladder. The hilus vessels are shown as well as the extrahepatic ducts and the main ligaments.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 21*18*15 cm

Weight : 550 g

ESB51104



Liver With Gall Bladder And Duodenum

This life size model shows a section of the liver with gall bladder, pancreas and duodenum, hepatic and pancreatic ducts.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*15*4cm

Weight : 710 g

ESB51105



Pancreas , Duodenum And Spleen Model

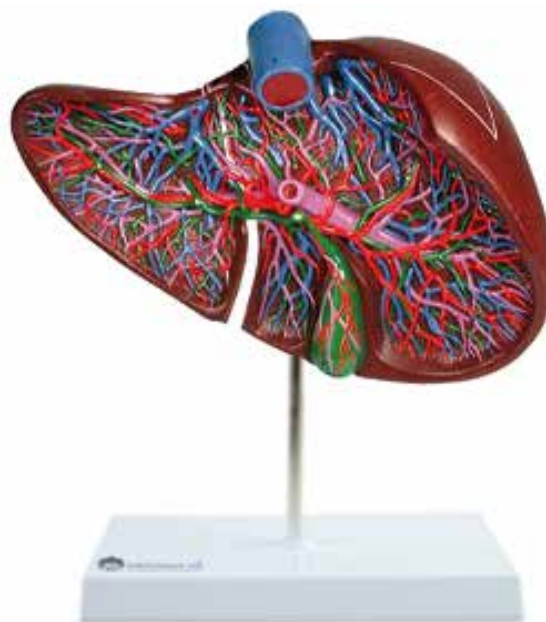
This life size model is an accurate representation of the pancreas, spleen and duodenum. The pancreas is open to show the entire pancreatic duct. The duodenum is partially dissected to expose its internal structure.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12*19*24 cm

Weight : 500 g

ESB51107



Liver Section With Gall Bladder Model

The model, 1,5X life size, shows the liver and gallbladder in open section with the complex network of vessels and bile ducts, displayed in different colours for clarity of examination.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 28*17*35 cm, Net weight : 1300 g

ESB51106





Lung Model

This life size model shows the normal human lung. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51329



Left And Right Lungs Model

Life size. This 2-part model is a realistic representation of human lungs with all external features.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 33*23*31 cm

Weight : 1800 g

ESB51331



Left and right lungs, 4 parts Model

This life size model shows the normal human left and right lungs, 4 parts. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 33*23*31 cm

Weight : 1800 g

ESB51332





Transparent Segmental Lungs Model

This model shows 10 segments in the right lung and 8 in the left. The distributions of bronchial tree can be observed through the transparent lungs. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 32*17*28 cm

Weight : 1000 g

ESB51333



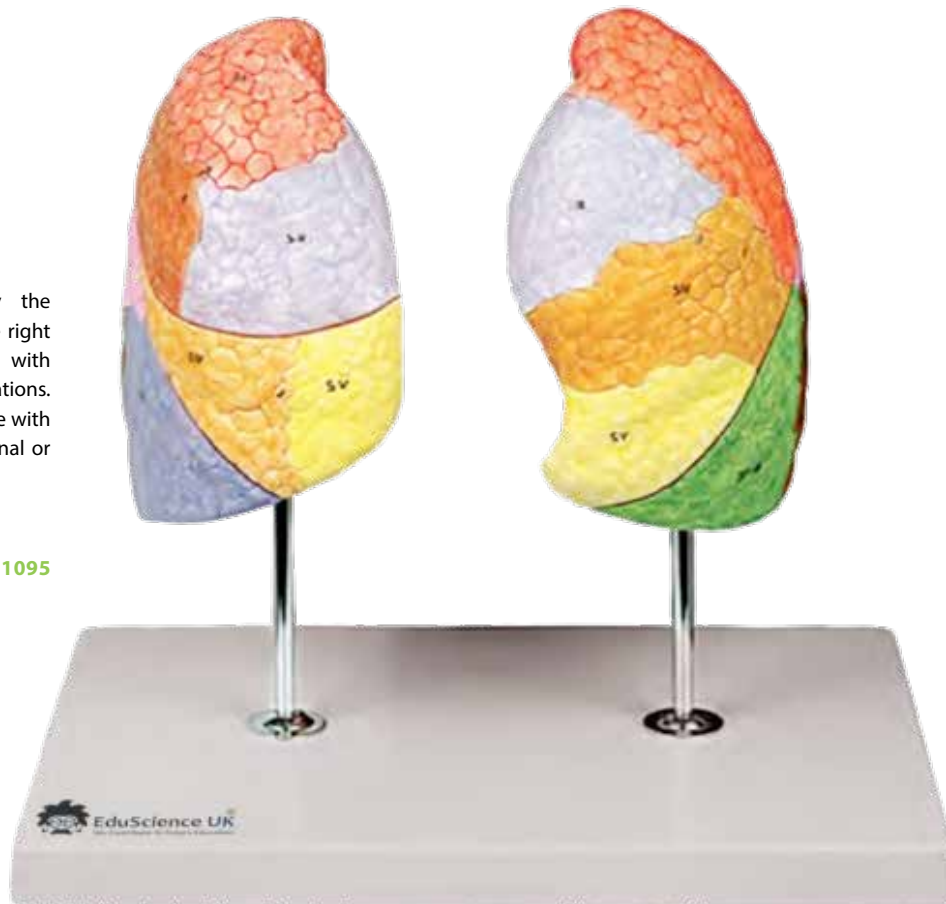
Segmented Lungs Model

This life size model shows clearly the segmental anatomy of the left and the right lungs. The various lobes are painted with different colours to highlight their locations. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 23*33*32 cm

Weight : 1800 g

ESB51095





Dental Care Model (Oral Hygiene)

A 3X life size model that is useful for teaching the correct way to brush teeth. A giant toothbrush is included. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51109



Dental Hygiene Model

This life size model shows the upper and lower dentition of an adult human. Valuable aid for teaching proper oral hygiene procedures. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 8*8*7 cm

Weight : 230 g

ESB51376



Deciduous Teeth Model

This life size model shows the upper and lower jaw of a 5 year old child. The lower jaw is movable to reproduce the natural chew. The model exposes the arrangement of the young teeth.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12*12*21 cm

Weight : 240 g

ESB51379



Permanent Teeth Model

This life size model shows the upper and lower jaw of a 5 year old child. The lower jaw is movable to reproduce the natural chew. The model exposes the arrangement of the young teeth.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 12*12*21 cm

Weight : 170 g

ESB51377





Enlarged Mouth, Nose And Throat Cavity Model

This model shows the oral, nasal cavities, pharynx and larynx. The upper respiratory tract is dissected into two pieces along the medial sagittal plane. 2 times enlarged.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 45*27*28 cm

Weight : 4000 g

ESB51383



Diseased Teeth Model

Oversized model of premolars and molars featuring many common dental problems, some of which are: abscess, advanced periodontitis, cavity, crown, decay, filling, gingivitis, plaque, and severe bone loss. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*15*15 cm

Weight : 700 g

ESB51380



Permanent Teeth, Set of 16 Pieces

This set model, composed of 16 pieces, shows in great detail the morphology of the permanent teeth. Maxillary and mandibular tooth types (incisors, canines, premolars and molars) are represented, enlarged to 4X life size.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 5*5*14.5 cm

Weight : 200g

ESB51378





Relief Model Of Deciduous Teeth

This is relief model of deciduous teeth
The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51382



Incisor, Canine, Molar Model

These are enlarged Incisor, Canine, Molar.

ESB51375



Incisor Model

This is enlarged human incisor, 1 parts

ESB51373

Incisor Model - 2 Prats

This is enlarged human Incisor, 2 part s

ESB51373/2

Molar Model- 2 Parts

This is enlarged human Molar, 2 parts

ESB51374/2



Deciduous Teeth Model - 10 Pcs

This 10-piece model is a useful tool to study the morphology of primary tooth types (incisors, canines and molars). Enlarged to 10X life-size. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

53x38x15cm/1400g

Dimensions : 53*38*15 cm

Weight : 1400 g

ESB51381



Enlarged Lower Jaw Model

This 3X life size model is divisible into 6 parts to show all the characteristics of an adult half mandible. A portion of the jaw can be removed to show the roots of the teeth and the internal structure of the bone.

Canine and molar teeth can be removed and dissected longitudinally to observe the tooth roots, pulp and nerves.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 35*18*35.5 cm

Weight : 1130 g

ESB51384





Staged Model Of Decaying Tooth

This model, composed of 7 parts, is 4X life size. It consists of 3 teeth, seated in their sockets, that shows the progressive deterioration of tooth structure by dental caries. The first tooth shows the caries in the enamel. In the second tooth, the caries invades the dentine. In the third tooth, the pathology affects the pulp, jeopardizing the vitality of the tooth.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 20*11*16 cm

Weight : 700 g

ESB51110



Diseased Tooth Model

This 4X life size model shows the process of dental caries in its progressive stages. The tissues forming the tooth (enamel, dentine and pulp) are shown, along with the way in which they are affected by the caries process.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51168



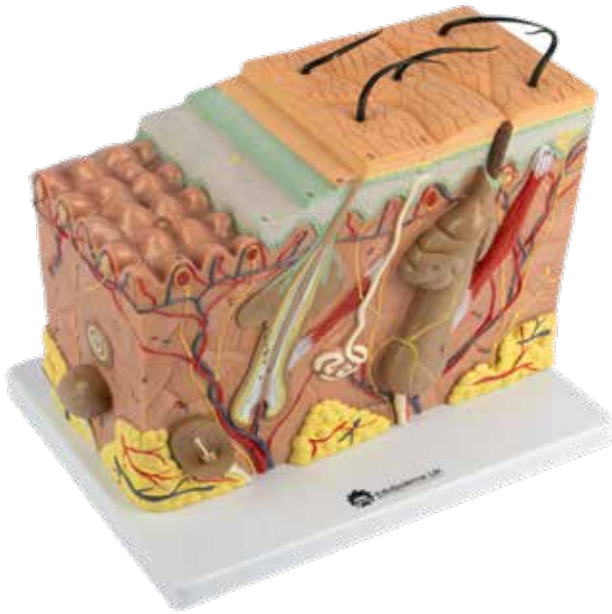
Diseased Tooth Model

This 4X life size model shows the process of dental caries in its progressive stages. The tissues forming the tooth (enamel, dentine and pulp) are shown, along with the way in which they are affected by the caries process.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51169





Skin Model, 70 Times Enlarged

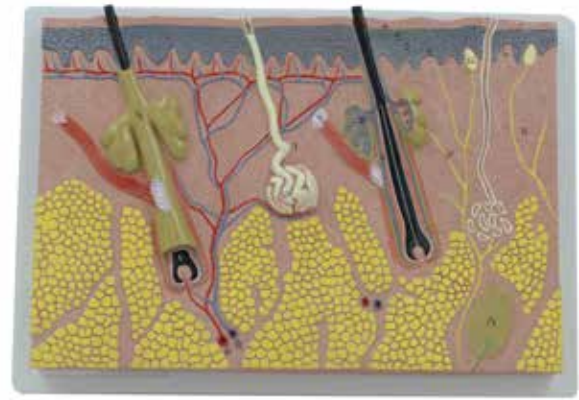
This 70X relief model compares a section of hairy skin. All structures, including sensitive corpuscles, hair follicles, sebaceous and sweat glands, are shown in great detail.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*26*26cm

Weight : 1600g

ESB51111



Skin Section Model 70 Times Enlarged

This 70X relief model shows the main structures through 3 layers of the hairy skin: hair follicles, sebaceous and sweat glands, erector muscles, sensitive corpuscles, nerves and blood vessels are well defined.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 33.5*23*7 cm

Weight : 1000g

ESB51113



Skin Model, 50 Times Enlarged

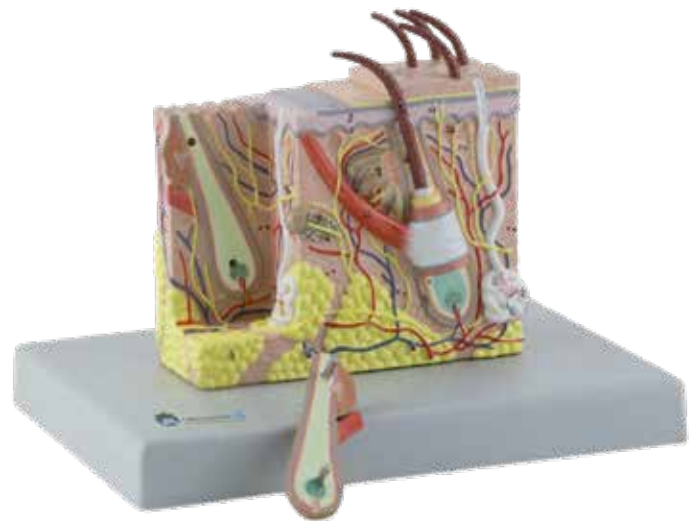
This 50X relief model compares a section of hairy skin. All structures, including sensitive corpuscles, hair follicles, sebaceous and sweat glands, are shown in great detail.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 13*24*24cm

Weight : 1000g

ESB51112



Skin Model, 35 Times Enlarged, 2 Parts

This two-part model provides a three-dimensional representation of the human skin, showcasing detailed anatomical structures such as hair follicles, sebaceous glands, sweat glands, erector muscles, Pacinian corpuscles, nerves, and blood vessels. The various layers of the skin are clearly delineated, allowing for comprehensive study. Additionally, a portion of a hair shaft can be removed to reveal internal details.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 54*39*8 cm

Weight : 800g

ESB51197





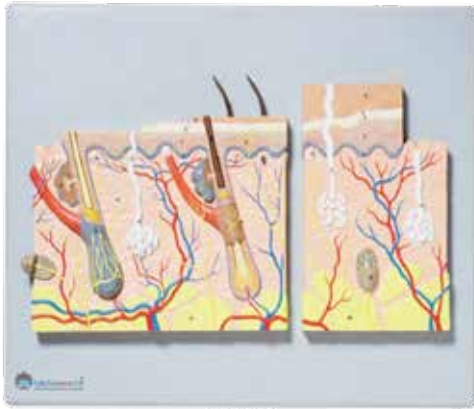
Skin Model 3 Layers

This enlarged model illustrates the three layers of the skin.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*14*2.5 cm Weight : 400 g

ESB51336



Skin Relief Model

This two-part model, enlarged 70 times, illustrates the fundamental structure of the skin with and without hair.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 54*39*8 cm

Weight : 1600 g

ESB51337



Hair Model 700 Times Enlarged

This four-part model, enlarged 700 times, provides a detailed depiction of hair anatomy. It includes representations of the shape of hair, hair follicles, longitudinal sections of hair roots, sections of hair shafts, cross-sections of hair roots, and hair bulbs.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 53*38*12 cm

Weight : 1950 g

ESB51338



Deluxe Kidney With Adrenal Gland Model, 3 Times Enlarged

This model shows a frontal section of the human kidney enlarged 3 times. The kidney is shown with the renal capsule. Additional structures include: the cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, supra-renal gland with cortex and medulla. A schematic representation of the renal corpuscle with the system of collecting tubules is included.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 28*21*10 cm, Weight : 1100 g

ESB51116



Kidney Model Section, 3 Times Enlarged

This model shows a frontal section of the human kidney enlarged 3 times. The kidney is shown with the renal capsule. Additional structures include: the cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, supra-renal gland with cortex and medulla.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 28*21*10 cm, Weight : 1100 g

ESB51120





Kidney Model On Stand 3 Times Enlarged

This solid model showcases the human kidney, enlarged three times its natural size, providing a detailed view of its structures. Included are the renal capsule, cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, suprarenal gland with cortex and medulla. Additionally, a schematic representation of the renal corpuscle with the system of collecting tubules is featured for educational purposes.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 15*17*33 cm

Weight : 1000 g

ESB51121/S



Kidney With Adrenal Gland Model , 1,5 Times Enlarged

This 2-part model, 1.5X life size, shows the human kidney in frontal region. Internal structures are clearly revealed, including cortex, medulla, pyramids, calyces, renal pelvis (partially opened), ureter and origins of the renal artery and vein. The front of the model is removable for inner examination.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*11*23 cm

Weight : 200 g

ESB51115



Kidney Model, Life Size

A life size model of the kidney with the adrenal gland. The model is sectioned along the front plane; it can be divided in 2 parts to show internal structures, including the cortex, medulla, pyramids with papillae, partially opened renal pelvis, ureter, blood vessels.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Size : 10.5*10.5*21 cm

Net weight : 220 g

ESB51114



Kidney Model Section ,3 Times Enlarged

This model shows a frontal section of the human kidney enlarged 3 times. The kidney is shown with the renal capsule. Additional structures include: the cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, suprarenal gland with cortex and medulla

Dimensions : 28*21*10 cm

Weight : 1100 g

ESB51121





Kidney, Nephron And Glomerulus Model

Right Kidney, Nephron and Glomerulus combined on one base plate. Model in one piece.

Right Kidney

Enlarged approx. 3 times, . Frontal section seen from behind; pyramids of the kidney with their papillae entering the partly open pelvis. Schematic Presentation of a nephron with its loop of Henle. Model in one piece. On a green board.

Nephron

Enlarged approx. 120 times. The model shows two nephrons with little knots of kidney, renal tubules and collecting tube system. Model in one piece. On a green base plate.

Glomerulus

Enlarged approx. 700 times, The model shows the arteriola afferens and the arteriola efferens, the capillaries of the glomerulus, urinary pole and Bowman's capsule.

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 30*65*9 cm

Weight : 3000 g

ESB51117



Kidney, Nephron And Glomerulus Model Solid

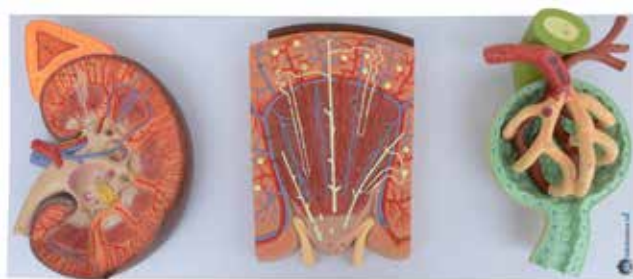
This 3 models set shows the basic structure of the kidney. We can find as a first model a kidney, illustrates adrenal gland, cortex, medulla, pyramids with papillae, renal pelvis and blood vessels. The second model, representing a nephron enlarged 120 times, shows a renal tubules, a collecting tube system and Henle's loop. The third one illustrates Malpighian corpuscle with the Bowman's capsule, 700 times life size. All these models are a great instrument to understand the kidney anatomy in all the inner details.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 31.5*9.5*22 cm

Weight : 510 g

ESB51118



Deluxe Kidney, Nephron And Glomerulus Model

This 3 model set shows the basic structure of the kidney. The first model shows a frontal section of the kidney enlarged 3 times. It presents the adrenal gland, cortex, medulla, pyramids with papillae, renal pelvis and blood vessels.

The second model, representing a nephron enlarged 120 times, shows a renal tubule, a collecting tube system, and Henle's loop.

The third model illustrates Malpighian corpuscle with the Bowman's capsule at a scale of 700x life size.

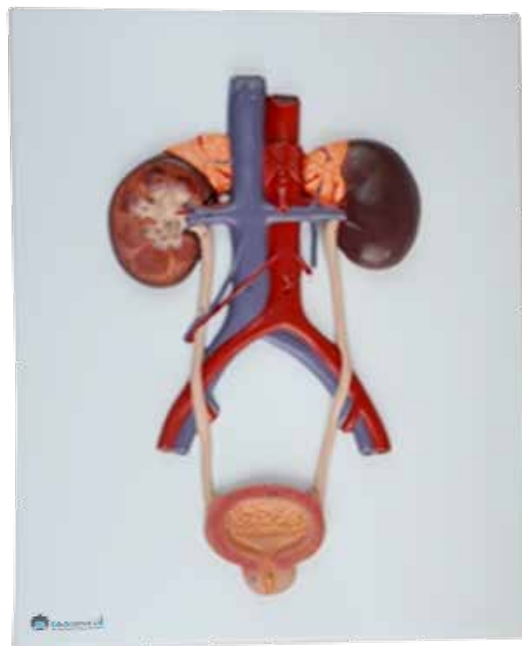
The model is securely mounted on a base , providing stability for educational or display purposes.

All these models are an excellent way to understand the inner details of human kidney anatomy.

Dimensions : 70*29*12 cm

Weight : 4100 g

ESB51119



Urinary System Relief Model

This model features sections of the urinary bladder, urethra, the inferior vena cava with tributaries, the abdominal aorta with branches, ureters, the kidneys with adrenal glands, a section showing internal renal structures (cortex, medulla, pyramids with papillae, vessels)

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 42*31*5 cm

Weight : 1000 g

ESB51124





Urinary System, Dual Sex Model

This all-in-one-model shows:

Structures of retroperitoneal cavity Large and small pelvis with bones and muscles Inferior vena cava Aorta with its branches including iliacal vessels Upper urinary tract Rectum Kidney with adrenal gland

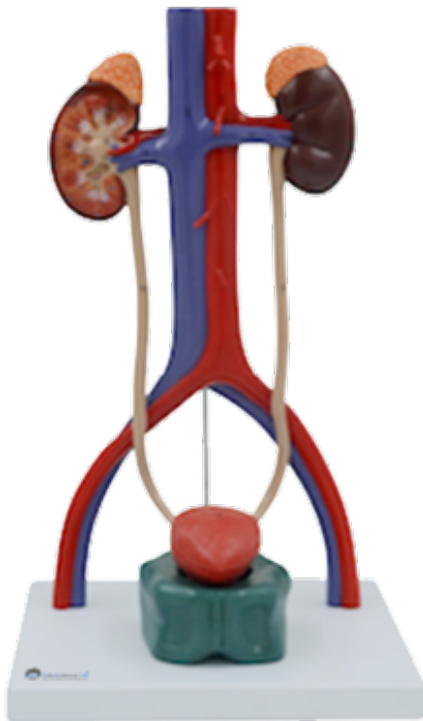
The front half of the right kidney is removable. With easy-to-change male insert (bladder and prostate, front and rear half) and female insert (bladder, womb and ovaries, two lateral halves)

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 42*23*10.5 cm

Weight : 3000 g

ESB51125

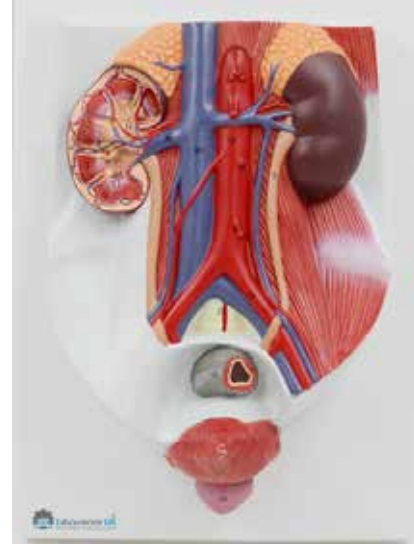


Urinary System Model, 4 Parts

Free-standing model comes with four parts and represents the major components of the urinary system. The right kidney is dissected to show the cortex, medulla, pyramids, calyces - PELvis, and origins of the renal artery and vein. The bladder can also be removed and opened for more detailed learning. Durable and a great learning tool in all classrooms and laboratories. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 26 *18.8 cm , Weight : 850 g

ESB51123



Urinary System Model 'On Bas

This model depicts the urinary system, featuring the bladder, prostate, and kidney.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 42*23*10.5 cm

Weight : 2500 g

ESB51312



Urinary System Life-Size Model, 5 Parts

This life-sized model of the urinary system consists of five parts, providing a detailed depiction of its basic structure. The model allows for the bladder and kidneys to be opened, offering a closer examination of their internal anatomy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 25*18*30 cm

Weight : 800 g

ESB51123/5



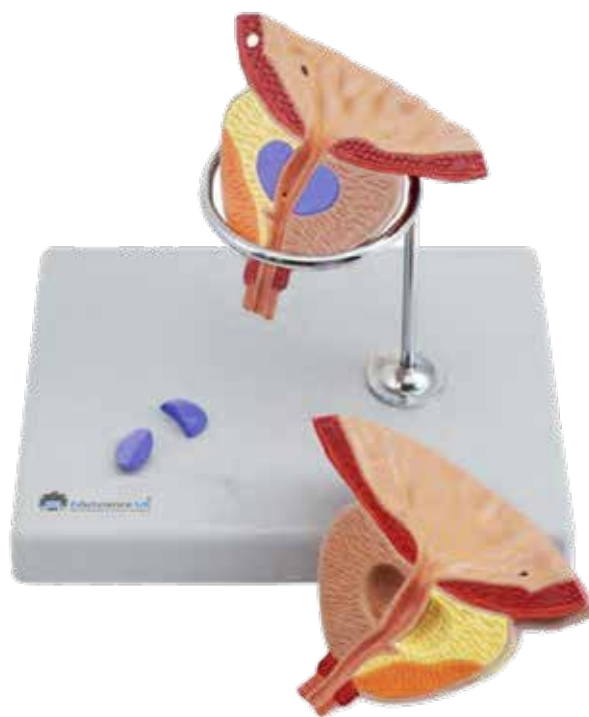


Bladder Model

This model, enlarged 3 times, shows the male urinary bladder with the prostate gland surrounding the urethra. The model is dissected medially to expose both internal and external structures of the bladder and prostate, including the urethric and urethral orifices, ductus deferens, seminal gland, ejaculatory duct.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51126



Prostate Model 2 Times Enlarged 4 Parts

This four-part model, enlarged to twice life-size, provides a comprehensive view of the complete anatomy of the prostate. Additionally, the basal part of the urinary bladder is included, and thanks to the longitudinal section, all the different lobes of the prostate can be easily identified.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 16.5*13*20 cm

Weight : 1100 g

ESB51315



Enlarged Bladder Model

This model, enlarged three times its natural size and composed of two parts, illustrates the internal and external structure of the bladder, internal urethra, prostate, and a portion of the vas deferens.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 22*14.9*27 cm

Weight : 1230 g

ESB51314



Male Pelvis Model , Life Size

This life size model, composed of 4 parts, presents an open view through a median sagittal section of the pelvis. Internal structures of the male urogenital system are represented in fine detail. The removable parts include a half penis divided into medial and transverse sections, and half of the male reproductive system with an open dissection of a testis showing details of the internal structure.

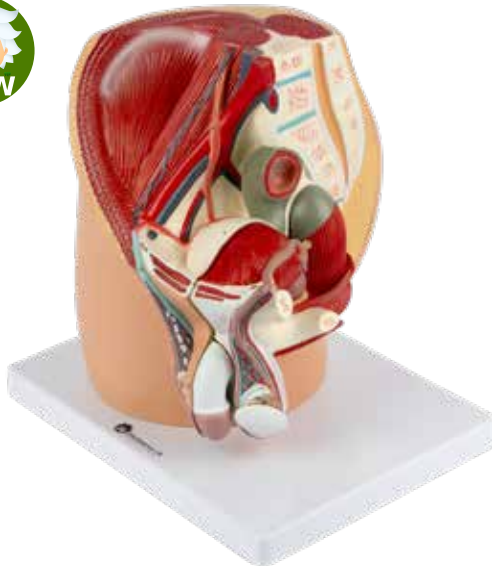
The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 28*24*29 cm

Weight : 2000 g

ESB51127





Male Pelvis Model, 1/2 Life Size

This half-life-sized model presents an open view through a median sagittal section of the male pelvis.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

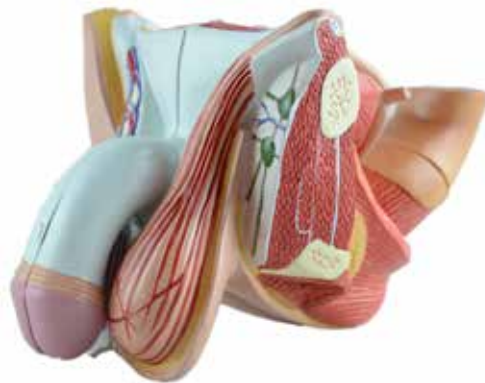
ESB51127/0.5



Median Section Of Male Pelvis Model On Stand

This model, displayed on a stand, depicts a reduced-size mid-sagittal section showcasing the anatomy of the pelvis and testis. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51128/N



Male Genital Organ Model, Life Size

This life size model, composed of 4 parts, is dissected through the median sagittal plane to provide excellent views of external and internal structures.

The removable parts include two halves of the penis, showing medial and transverse cuts and 2 halves of the male reproductive system with excellent detailing of internal structures.

Dimensions: 20*13*12.5 cm

Weight :820 g

ESB51129



Median Section Of Male Pelvis Model On Base

This model displays a median section of the male pelvis, presenting the rectum, bladder with prostate, testicular duct, and external genital organs. It consists of four parts for detailed study.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51316/M



Median Section Of Male Pelvis Model 1/2 Life Size

Male-half scale Middle-sagittal cross-section which shows the anatomy of the pelvis and testis.

ESB51128





Male Genital Organ Model, Life Size, With Base

This life-sized model, consisting of four parts, is dissected along the median sagittal plane to offer detailed views of both external and internal structures of the male genital organ. The removable parts include two halves of the penis, displaying medial and transverse cuts, as well as two halves of the male reproductive system, featuring excellent detailing of internal structures.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51129/B



Testis Model , 10 Times Enlarged

This model shows the medial and sagittal section of the human testis including epididymis, ductus deferens, seminiferous tubules and rete testis

Size : 11x11x26 cm

Net weight : 260 g

ESB51130



Male Reproductive System Model

This model depicts all the organs of the male reproductive system in natural size. The penis, prostate, and urinary bladder are longitudinally sectioned to reveal their inner anatomy, while the testicle is partially cut away to expose all internal structures. Additionally, the model features a detailed cross-section of the testicle, significantly enlarged, showcasing the septula testis, rete testis, straight and contorted seminiferous tubules with great accuracy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions: 40*26*10 cm

Weight: 500 g

ESB51311



Spermiogenesis Model, 10000 Times Enlarged

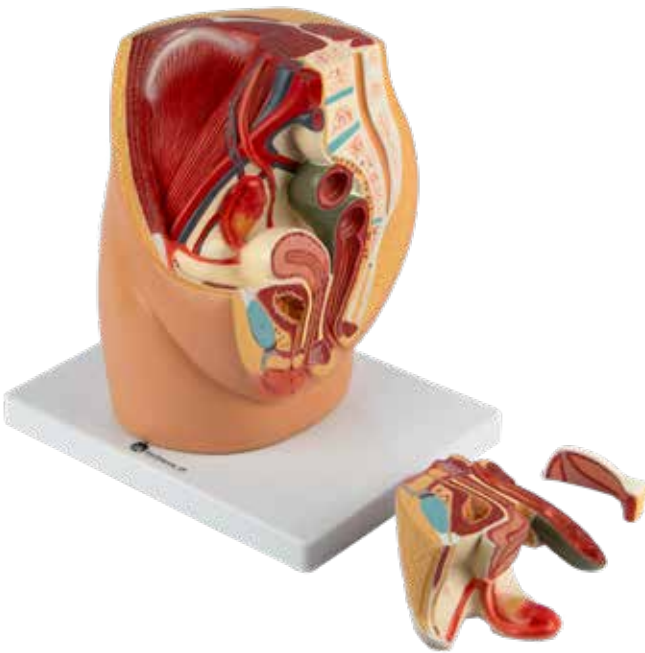
This model shows the process of spermatogenesis from spermatid to the mature spermatozoon.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Base Dimensions : 26*40 cm

ESB51131





Female Pelvis Model, Life Size

This life size model, composed of 3 parts, shows an open dissection through the median sagittal section of the pelvis. Internal structures of the female urogenital system are portrayed in great detail. Removable parts include half of the female reproductive system with the uterus opened to reveal medial and transverse sectional views.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 28*24*29cm

Weight 2100g

ESB51132



Female Pelvis Model, 1/2 Life Size

This half-life-sized model presents an open view through a median sagittal section of the female pelvis.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51132/0.5



Median Section Of Female Pelvis Model

This model displays a median section of the female pelvis, showcasing the female genital organs along with the bladder and rectum.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Base Dimensions : 26*40 cm

ESB51316/F

Median Section Of Female Pelvis Model On Stand

This model depicts a reduced-size mid-sagittal cross-section of the female pelvis, showcasing the anatomy of the female reproductive system.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51133/N



Median Section Of Female Pelvis Model

this half scale mid-sagittal cross-section of the pelvis showing female anatomy, including the ovary and fallopian tube.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 14*14.5*2 cm

Weight : 300 g

ESB51133





Deluxe Pregnancy Pelvis Model

This life size model depicts the female human pelvis in median section with a foetus in the 40th week of pregnancy. The foetus is in the normal position prior to birth, showing the anatomical relationship between various structures of the maternal pelvis and the fetus. Fetus is detachable for closer examination.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 24*40*38 cm

Weight : 4000g

ESB51140



Pregnancy Pelvis With Mature Foetus Model

This life-size model, foetus in uterus with closed and opened uteri, the beginning of the emergence of the head.

ESB51141



Female Internal Genital Organ Model

1.5X life size model shows a dissected view of the vagina, cervix, uterus and ovary with follicles at various stages of development.

Dimensions : 20*17.5*9 cm

Weight : 350 g

ESB51137



Female Internal Genital Organ Model

1.5X life size model shows dissected view of the vagina, cervix, uterus and ovary with follicles at various stages of development.

Dimensions : 9*17.5*20 cm

Weight : 350g

ESB51136



Female Genital Organ Model, 4 Parts

This life size model, composed of 4 parts, is a detailed representation of the female reproductive system as viewed through a median sagittal dissection. Removable parts include a 2-part uterus and 2 halves of the female reproductive apparatus with details of the internal structure.

Dimensions : 14.5*13*12 cm

Weight : 500 g

ESB51135



Female Genital Organ Model, 4 Parts, with Base

This life size model, composed of 4 parts, is a detailed representation of the female reproductive system as viewed through a median sagittal dissection. Removable parts include a 2-part uterus and 2 halves of the female reproductive apparatus with details of the internal structure.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

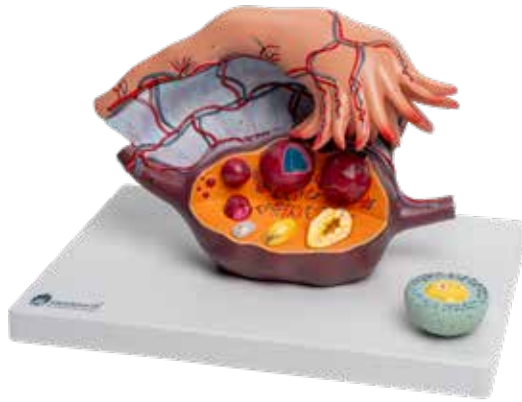
The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 29*17*20 cm

Weight : 1200 g

ESB51135/B





Ovary Structure Model

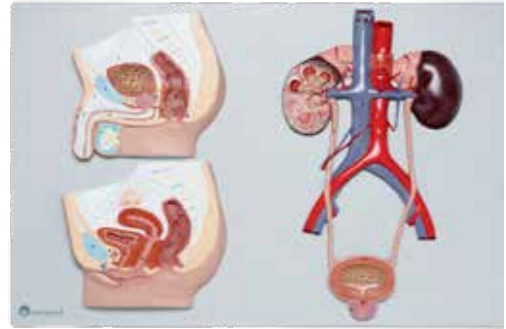
This 2-part, 5X life-size model shows the anatomy of the human fallopian tube and ovary. The follicles are shown at different stages of maturation, from the primary ovarian follicle to the corpus albicans. A primary follicle is cross-sectioned, to illustrate the inner structure, the oocyte, zona pellucida and granulosa cells.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 35*25*25cm

Weight : 2000 g

ESB51138



Relief Model Of Male And Female Urinary System

This relief model showcases sections of both male and female pelvises, along with the urinary bladder, urethra, the inferior vena cava with tributaries, the abdominal aorta with branches, ureters, and the kidneys with adrenal glands. Additionally, it includes a section illustrating internal renal structures such as the cortex, medulla, pyramids with papillae, and vessels.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 53*38*5 cm

Weight : 1000 g

ESB51313



Uterus Model, 2 Parts

Full-size cross-section model illustrates multiple pathologies, dissected into 2 parts

Dimensions : 23*17.5*9.5 cm

Weight : 550 g

ESB51139



Fertilization Process Model

This model illustrates two frontal sections through female genital organs, depicting the fertilization process.

ESB51343



Enlarged Ovary Model

This enlarged ovary model is composed of eight parts, illustrating the various stages of ovum development. These parts include the ovary itself, primary ovarian follicles, secondary ovarian follicles, the ovum, ovulation, corpus luteum, and corpus albicans. The model effectively demonstrates the process of ovum development from its initial stages to maturation.

ESB51349



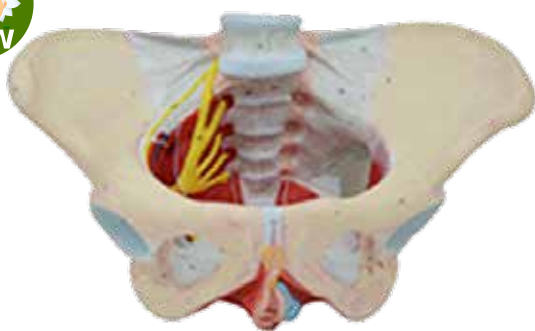
Female Pelvis Cavity Model With 2 Lumbar Vertebra's

This single-piece life-size model is a very useful tool to study the female pelvic anatomy and to understand the relationship between pelvic bones, muscles and female genital organs. It shows a complete skeleton of a female human pelvis associated with ligaments, muscles, internal and external female urogenital organs. Both the urinary bladder and the uterus can be opened along the longitudinal plane to show their inner anatomy. All the structures are reproduced with great detail and accuracy.

Dimensions : 25*24*13 cm, Weight : 1130 g

ESB51134





Pelvic Floor Muscle Model, 1 Part

This single-part model displays the pelvis along with its ligaments, nerves, perineum, and other relevant structures, focusing on the pelvic floor muscles.

ESB51348



Pelvic Floor Muscle Model, 4 Parts

This four-part model provides a representation of the external and internal genital organs along with the pelvic floor, including a network of nerves and vessels.

Dimensions 20*18*30 cm

Weight : 2000 g

ESB51348/4



3 Stages Of Fetus Delivery Model, Life Size

This life-sized model illustrates the three stages of the fetus delivery procedure. It includes representations of the uterus, fetus, placenta, pelvis, birth canal, and umbilical cord.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51350

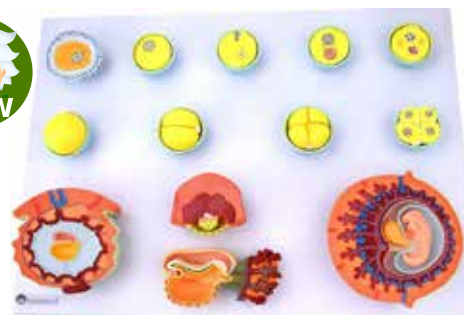


Placenta Model

This model displays the structure of the placenta and illustrates the relationship between the placenta and the umbilical cord.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51346



Human Fertilization & Internal Embryogeny

This model illustrates two frontal sections through female genital organs, depicting the fertilization process.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Weight : 2800 g

ESB51344



Human Fertilization And Early Embryogenic Model

This set of 16 different models illustrates human fertilization and early embryogenic, depicting the development of the human ovum up to the third month.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51345





Enlarged Model Of Placenta

This enlarged model depicts the cross-section structure of the human placenta.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 35*25*25 cm

Weight : 2000 g

ESB51347

Foetus Development Model, Life Size

Set of eight model illustrates the detailed stages of pregnancy development. Includes a first-month embryo, second-month embryo, third-month embryo, fourth-month foetus in transverse lie position, fifth-month foetus in breech position, fifth-month foetus in transverse lie position, fifth-month twin foetuses, and seventh-month foetus. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 51*21*20 cm

Weight : 4000 g

ESB51142



Fetal Development Model on Base

This model shows the process of fetal development from the unfertilized ovum to the 9th month of gestation. The model consists of five parts. The first shows the developmental stages: ovulation; fertilization, zygote formation and uterine implantation that take place in ovary, fallopian tube and uterus. The other parts show the fetus at 2 weeks, 8 weeks, 12 weeks and 9 months of development. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 55*40*10 cm

Weight : 3000 g

ESB51589



Fetal Blood Circulation System Model

This model shows thoracic, abdominal cavity, heart, umbilical cord and placenta, venous and arterial ducts.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51592



Fetus With Viscus and Placenta Model, 11 Parts, Life Size

This model shows a term fetus with placenta, umbilical cord and internal organs.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 56*40*20 cm

Weight : 4000 g

ESB51593





Fetal Membrane And Uterus Model

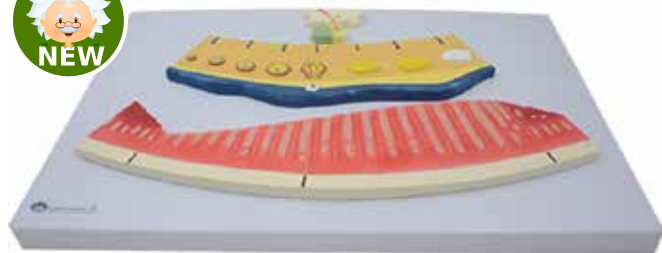
This section model shows the anatomical structure of the fetus, placenta, uterus, and umbilical cord.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 53*38*17 cm

Weight : 4000 g

ESB51351



Periodic Changes Of Female Hormones & Internal Layer of Uterus Model

This model shows the relationship between female hormone levels and changes in the uterine lining throughout the menstrual cycle.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 54*39*10 cm

Weight : 3000 g

ESB51352



Breast Model Basic On Base

This model shows the basic shape and structure of human breast. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 40*26*13 cm

Weight : 950 g

ESB51598



Human Embryo Model 50 Times Life Size , 4th Week

This model, 50X life size, shows structural details of a human embryo at 4 weeks of development.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 26*24*15 cm

Weight : 1700 g

ESB51590



Breast Model

Full size cross-section model depicts common pathologies ,Medially divided into 2 halves, Model also shows breast structures such as suspensory ligaments, fat tissue, muscles, and ribs.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 14.5*12*10 cm,

Weight : 650 g

ESB51178



Lactation Breast Model

Life size Breast model Medially divided into 2 halves Healthy lactating breast tissue on the cut surface of the external half

Breast gland inflammation (mastitis) on the cut surface of the inner half The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 20*20*25 cm,

Weight : 1500 g

ESB51177





Human Head Cranial with Autonomic Nerves Model 2-Part

This model, enlarged 2.5 times life-size, features a dissection of a human half head, showcasing the 12 cranial nerves along with their collateral branches and autonomic nerves. A median section reveals the upper respiratory tract and pharynx. Additionally, the eyeball is removable for close examination.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 20*26*41.5 cm

ESB51208



Head With Muscles Model

This model consists of 10 parts and displays the cranium, eye, cerebral falx, right and left brain, and cervical vein.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51204



Head And Neck Musculature Model

This model provides a comprehensive depiction of the muscles in the head, neck, and superior thoracic region. It accurately represents both the superficial and deep musculature, along with illustrating the pathways of the subclavian and carotid arteries. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 33*22*48 cm,

Weight : 3000 g

ESB51199



Arteries Of Head Model

This model illustrates the pathway of the left external carotid artery, encompassing its collateral and terminal branches.

The model is securely mounted on a base, providing stability for educational or display purposes.

20x15x20cm/600g

Dimensions : 20*15*20 cm

Weight : 600 g

ESB51205





Head With Brain Model

Life size head model is composed of 4 parts, as follows: half brain, features the internal structure of the cerebrum, including blood vessels half of the cerebellum eye with optic nerve

The right side of the face is dissected in sagittal and horizontal section, showing many significant internal features of the skull and brain, as well as the entire oronasal cavity.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 24*22*19 cm

Weight : 1500 g

ESB51147



Muscles Of Head And Neck Model

The product demonstrates the neck anatomy, the superficial structure of the neck, the anterior neck area and the sternocleidomastoid area, the lateral neck area, the base of the neck, the fascia and the fascial space.

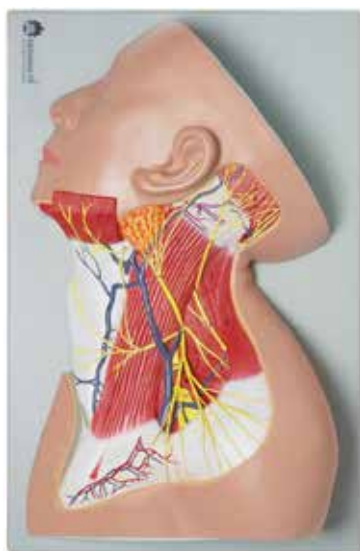
Also shows the anatomy of brain and face.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 45*29*42 cm

Weight : 3500 g

ESB51201



Nerves Of Neck Region Model

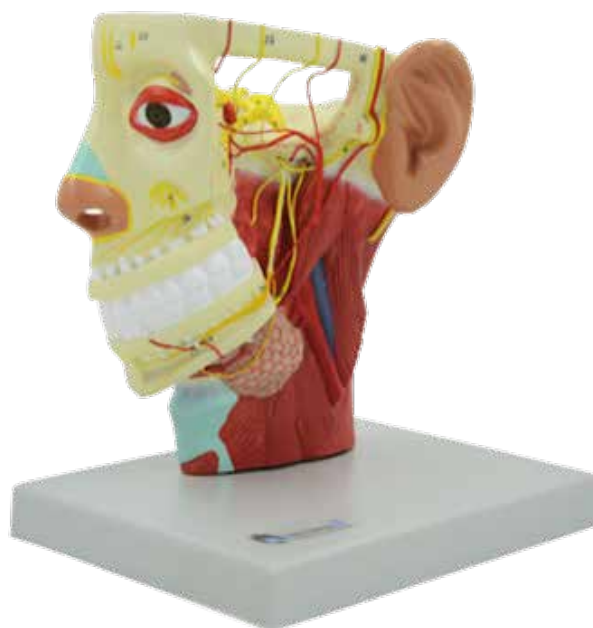
This life size model shows the distribution of superficial branches of the cervical plexus.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*11*28 cm

Weight : 2100 g

ESB51144



Diseased Prostate Glands Model

This model illustrates the pathway of the left external carotid artery, encompassing its collateral and terminal branches.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 20*15*20 cm

Weight : 600 g

ESB51206





Disc Head Model

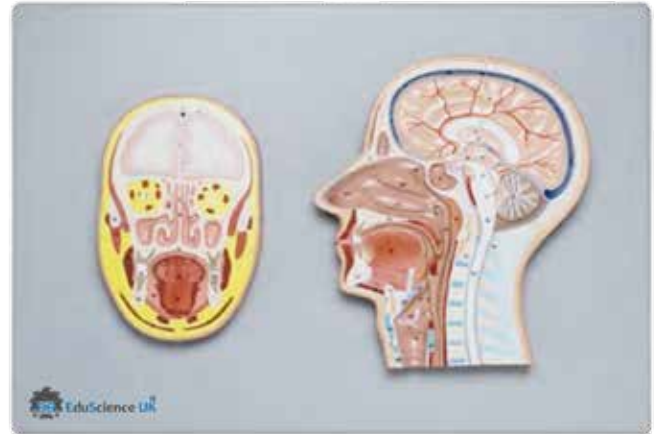
This life-size head model is sliced horizontally into 12 pieces, simulating the process of computer tomography and magnetic resonance imaging. Each slice is rotatable and removable, allowing for detailed examination of anatomical structures with high accuracy. All structures, including muscles, nerves, brain gyri, and sulci, are numbered and identified in the accompanying manual.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 25*18*24 cm

Weight : 3000 g

ESB51209



Frontal And Median Section Of Head (Relief Model)

This life-size representation offers a detailed view of both the superficial and internal structures of the head and neck. Through a comparison between frontal and median sections, it provides a comprehensive understanding of the anatomical features of the head and neck region. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 53*38*6.5 cm

Weight: 1600 g,

ESB51211

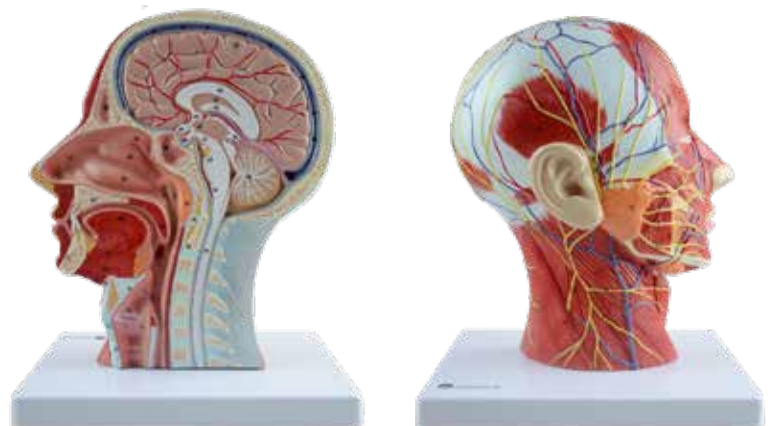


Sagittal Section Of Human Head Model

This life-size representation is a relief model showcasing both superficial and internal structures of the head and neck. It offers a comprehensive view of all relevant anatomical features with intricate detail.

The model is securely mounted on a base, providing stability for educational or display purposes.

ESB51210



Half Head Model

Life size model shows the right half of the human head and neck, sectioned along the sagittal plane. A superficial dissection exposes the facial muscles, the superficial blood vessels and nerve branches of the face and scalp, the parotid and submandibular glands. A median dissection expose the brain with its internal structure, the pharynx and upper respiratory tract, a section of the cervical vertebrae.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 23*18*27.5 cm

Weight : 850 g

ESB51146





Brain Model With Artery , Life Size

This extremely realistic life size brain model can be divided into 9 parts showing the temporal and occipital lobes, the frontal and parietal lobes, the cerebellum, the brain stem and the basilar artery. All structures, including blood vessels, are shown in great detail. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*16*17 cm

Weight : 2000 g

ESB51149/2



Brain Model With Artery , Life Size

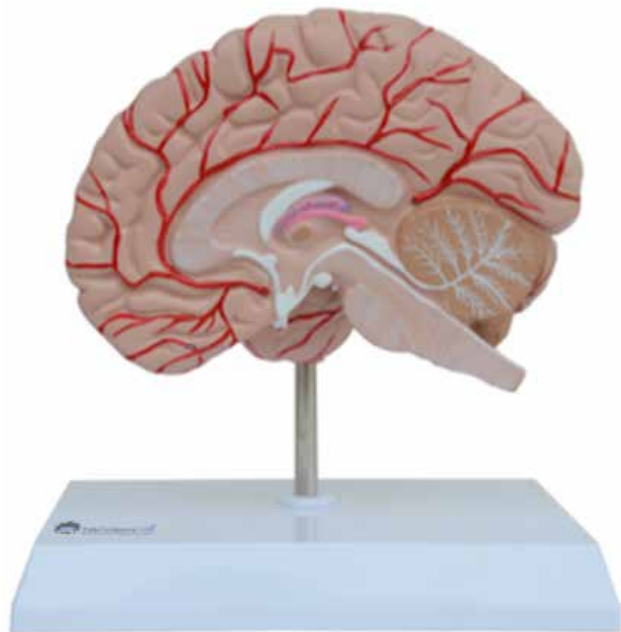
This extremely realistic life size brain model can be divided into 9 parts showing the temporal and occipital lobes, the frontal and parietal lobes, the cerebellum, the brain stem and the basilar artery. All structures, including blood vessels, are shown in great detail.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*16*17 cm

Weight : 2000 g

ESB51149



Right Brain Model life Size

A life size half brain model along the sagittal plane. It shows the right cerebrum, cerebellum, brain stem section and blood vessels. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*14*16.5 cm

Weight : 370 g

ESB51148



Brain Model With Functional Region Painted

Life size brain with distinct colour coding for the following regions: frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, brain stem.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19.8*16.5*14.5 cm

Weight : 1400 g

ESB51150





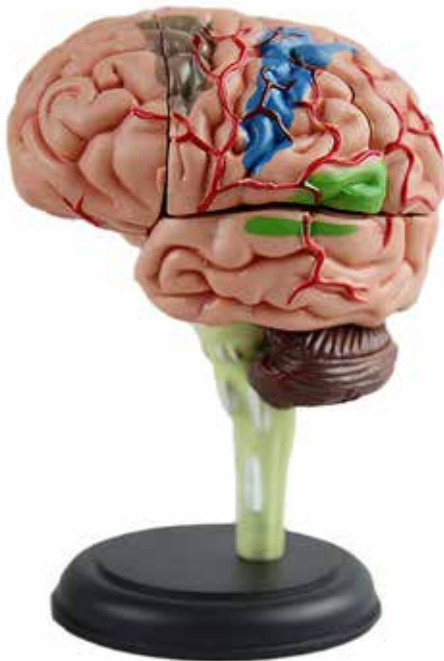
Right Brain Model With Functional Region Painted

A life size half brain model with distinct colour coding for the following regions: frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, and brain stem. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*14*16.5cm

Weight : 370g

ESB51151



Brain Model 4D

A life size half brain model with Artery with distinct color coding for the following regions: frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, and brain stem.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 9*9*8cm

Weight : 200g

ESB51152



Deluxe Brain Model, 1.5 Times Enlarged

A life size half brain model with distinct color coding for the following regions: frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, and brain stem. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 36*23*20cm

Weight : 2500g

ESB51153



Brain Model, 9 Parts, Life Size

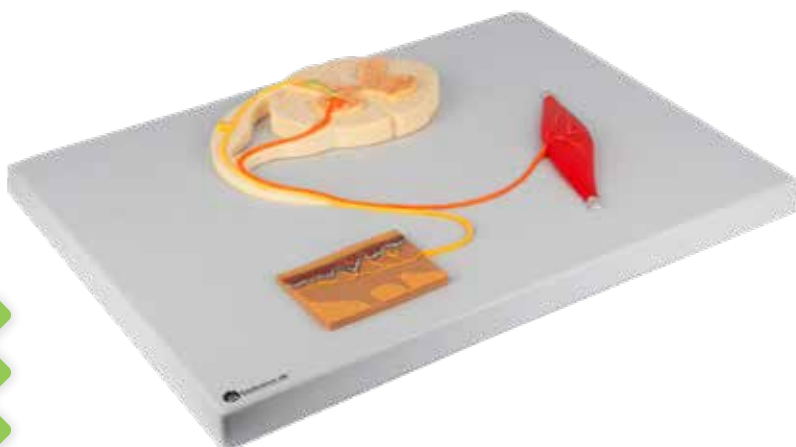
This extremely realistic life size brain model can be divided into 9 parts showing the temporal and occipital lobes, the frontal and parietal lobes, the cerebellum, the brain stem and the basilar artery. All structures are shown in great detail.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*16*17cm

ESB51154





Reflex ARC Model

This model illustrates the sensory, neural, and motor elements of a somatic reflex arc.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 53*38*5.5 cm

Weight : 450 g

ESB51270



Brainstem Enlarged 3 Times Model

This single-piece model serves as a crucial aid for comprehending the deeper anatomy of the brain. Enlarged three times its natural size, it provides a detailed representation of all neurological tracts, exiting cranial, and peripheral nerves. The principal anatomical structures are numbered and identified on the accompanying manual, facilitating easy reference and study.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 25.5*18*15 cm

Weight : 800 g

ESB51272



Basal Nuclei And Internal Capsule Model

This model serves as a fundamental aid for studying human deep neuroanatomy. Enlarged significantly and composed of two parts, it provides clear visualization of key anatomical structures such as the caudate nucleus, the lentiform nucleus, and the genu of the internal capsule. False colors are used to enhance differentiation. Additionally, the main structures are numbered and correspond to an accompanying manual for easy reference and study.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 12*12*12 cm

Weight : 170 g

ESB51271



Brainstem, Cerebellum & Fourth Ventricle Model

This life-size model can be separated into three parts: the Cerebellum and Brainstem, which are longitudinally sectioned to reveal the insertions of the cranial nerves and inner anatomy. Each structure is numbered and identified on the accompanying manual for easy reference and understanding.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 21.5*13*13.5 cm

Weight : 380 g

ESB51273





Transparent Cerebral Ventricles Model With Base

Transparent model would allow for clear visualization of the ventricles, facilitating educational purposes or medical discussions. Such models can be used in various settings including medical schools, neuroscience research labs, hospitals, and patient education.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51267



Spinal Cord And Nerve Model

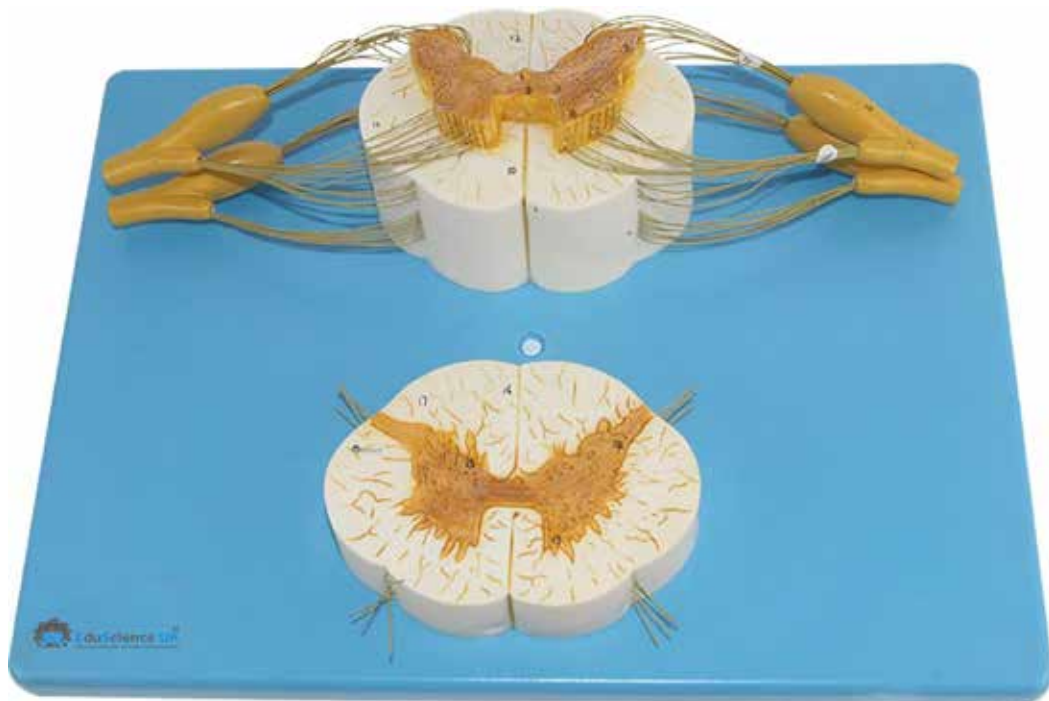
These models are commonly used in medical schools, anatomy labs, and healthcare settings to aid in the teaching and learning of spinal cord and nerve anatomy, as well as for patient education purposes. They can help students and healthcare professionals better understand the complexities of the nervous system and its role in the body.

This is enlarged spinal cord and nerve model. With a manual on the base. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 0 8*23*19 cm

Weight :1000 g

ESB51268



Spinal Cord With Nerve Branches Model

This model depicts the anatomy of the spinal cord and nerves, enlarged to five times their natural size. The model is securely mounted on a base, providing stability for educational or display purposes.

ESB51269





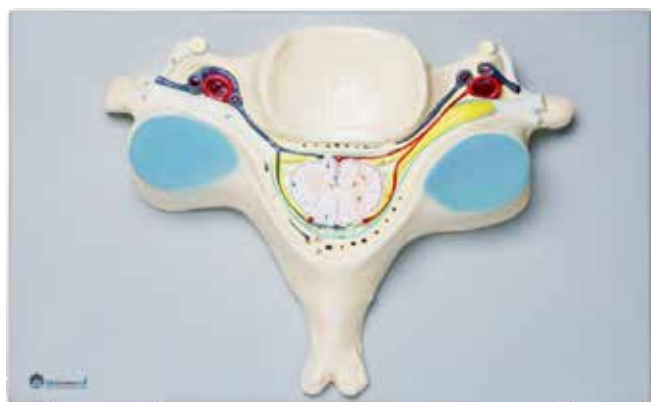
Ventricles and Basal Nuclei Model

This life-size model is an important tool to study the topography of the cerebral ventricles related to the basal nuclei. All the different structures are reproduced in great detail

Dimensions : 9,5*9*7,5 cm

Weight : 130 g

ESB51156



5th Cervical Vertebrae Model, 7 Times Enlarged

7X life size. This model shows in great detail the structure of the 5th cervical vertebra; a transverse section of the spinal cord with grey and white matter, the nerve branches, the spinal ganglion and the blood vessels.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 40*26*9 cm

Weight : 710 g

ESB51158



Cerebellum Model

4X life size. Human cerebellum is dissected to show details of internal organization: arbor vitae, the spinal ganglion and the blood vessels.

Dimensions : 18*14*16,5 cm

Weight : 370 g

ESB51279



Diencephalon Model

This 4-part model, 5X life-size, shows the human diencephalon: all the main parts of thalamus, epithalamus, metathalamus and hypothalamus are represented in great detail. The hypothalamic nuclei are displayed in different colours; the thalamus is removable and divisible into two parts to show the inner anatomy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 25*18*24,5 cm

Weight : 1600 g

ESB51155





Brainstem And Nuclei Of The Hypothalamus Model

This 4-part model, enlarged to 2 times life size, provides a detailed representation of the human brainstem and hypothalamus. The brainstem is sectioned to reveal the hypothalamic nuclei, while the thalamus is removable and can be divided into two parts for inner examination. Additionally, the insertions of the cranial nerves are clearly recognizable on the surface of the brainstem.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 21.5*13*13 cm

Weight : 420 g

ESB51277



Thalamus Model, 5 Parts

This model, enlarged to 5 times life size, is dissected into 5 parts. Each part delineates various functional areas with separate colors, allowing for a clear distinction between the different nuclei of each structure.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*13*13 cm

Weight : 720 g

ESB51275



Thalamus Model, 7 Parts

This 7-part model, enlarged to 5 times life size, showcases the various functional areas of the thalamus in distinct colors. This color differentiation ensures a clear distinction between the different nuclei of each structure, aiding in the study and understanding of thalamic anatomy and function.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*13*13 cm

Weight : 720 g

ESB51276



Thalamus Model, 2 Parts

This 2-part model, enlarged to 5 times life size, showcases the various functional areas of the thalamus in distinct colors. This color differentiation allows for a clear distinction between the different nuclei of each structure, aiding in the understanding of thalamic anatomy and function.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*13*13 cm

Weight : 720 g

ESB51274





Cranial Layers Model

Enlarged several times, this model depicts the stratification of the human cranium, revealing intricate details of internal structures from the skin to the cerebral white matter.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*26*2.5 cm

Weight : 1750 g

ESB51278



Neuron Model, 2500 Times Enlarged

Magnified to 2,500 times life size, this typical myelinated neuron shows all the internal cellular structures. The neuron model displays the cell body, and the myelin sheath with nodes of Ranvier and Schwann cells can be revealed by removing a part of the dendrite.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 42*32*12 cm

Weight : 1500 g

ESB51157



Neuron Model, 2 Parts

This item, magnified 2,500 times, provides a detailed display of the structure of a typical neuron. The sectioned soma reveals all internal cellular organs, including the nucleus, Golgi complex, smooth and rough endoplasmic reticulum. Additionally, the dendrite can be opened into two parts to reveal internal structures such as the Schwann cell and myelin sheath.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 53*38*6 cm

Weight : 1100 g

ESB51264



Spinal Cord In The Spinal Canal Model

This model displays the brain, cerebral nerves, spinal cord, and spinal nerves.

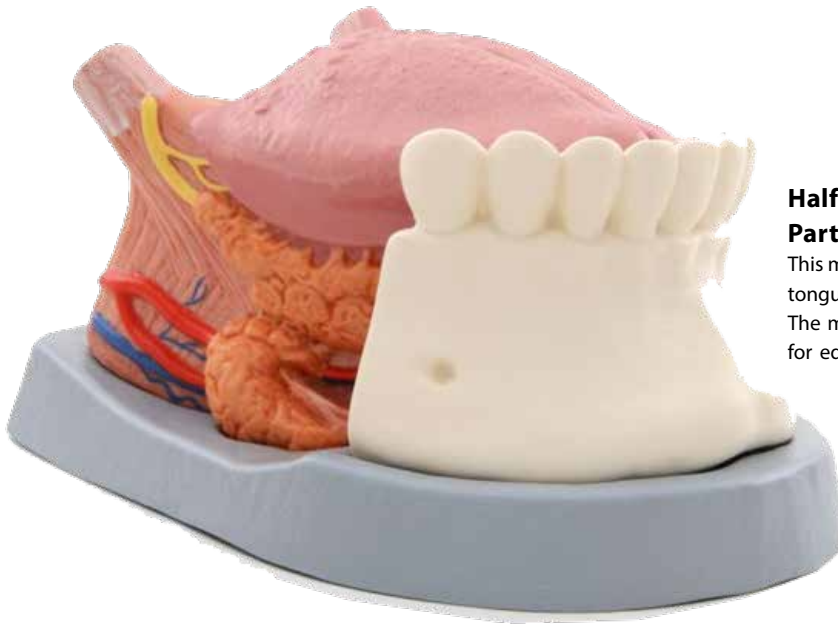
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 190*32*10 cm

Weight : 5000 g

ESB51265





Half Tongue Model, 2.5 Times Life Size , 3 Parts

This model is a 2.5 times enlarged representation of the human tongue, consisting of three parts.

The model is securely mounted on a base, providing stability for educational or display purposes.

ESB51196

Tongue And Tongue Tissue Model

This 4-part model, enlarged to 2 times life size, provides a detailed representation of the human brainstem and hypothalamus. The brainstem is sectioned to reveal the hypothalamic nuclei, while the thalamus is removable and can be divided into two parts for inner examination. Additionally, the insertions of the cranial nerves are clearly recognizable on the surface of the brainstem.

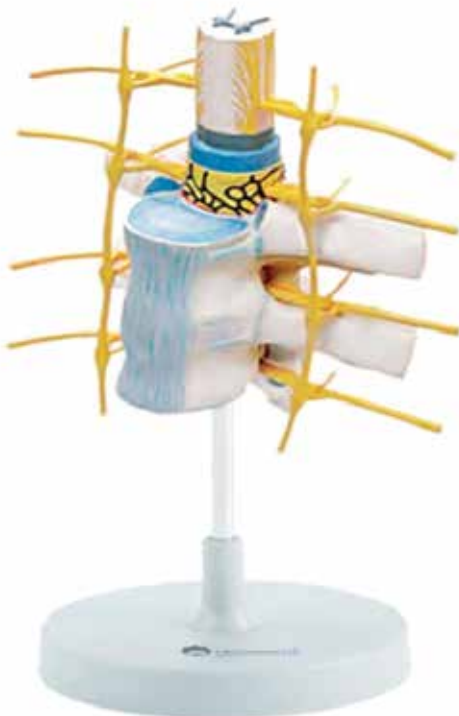
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 33*23*15 cm

Weight : 750 g



ESB51195



Thalamus Model, 2 Parts

This 2-part model, enlarged to 5 times life size, showcases the various functional areas of the thalamus in distinct colors. This color differentiation allows for a clear distinction between the different nuclei of each structure, aiding in the understanding of thalamic anatomy and function.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*13*13 cm

Weight : 720 g

ESB51266





Eye Model, 6 Times Enlarged

6 Times life size. The model can be dissected on the horizontal plane to show internal details. Cornea, iris, lens, and vitreous body can be removed. Muscular attachments on the sclera and part of the choroid are also shown.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*16*26 cm,

Weight : 1400 g

ESB51161



Eye Model, 3 Times Enlarged

3 times life size. The model can be dissected on the horizontal plane to show internal details. Cornea, iris, lens, and vitreous body can be removed. Muscular attachments on the sclera and part of the choroid are also shown.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 13*13*12 cm Net

weight : 400 g

ESB51160



Eye Model, 6 Times Enlarged

This is a 6-part model of the human eye, enlarged 6 times its natural size. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18.5*18*16.5 cm

Weight : 675 g

ESB51214



Eye With Orbit Model, 4 Parts

This model, enlarged to 5 times life size, depicts the eyeball with optic nerves and muscles positioned naturally within the bony orbit. The removable parts include:

Rectus lateralis muscle

Levator palpebrae superioris muscle together with the lacrimal gland

Eyeball with extrinsic eye muscles

Base of the bony orbit

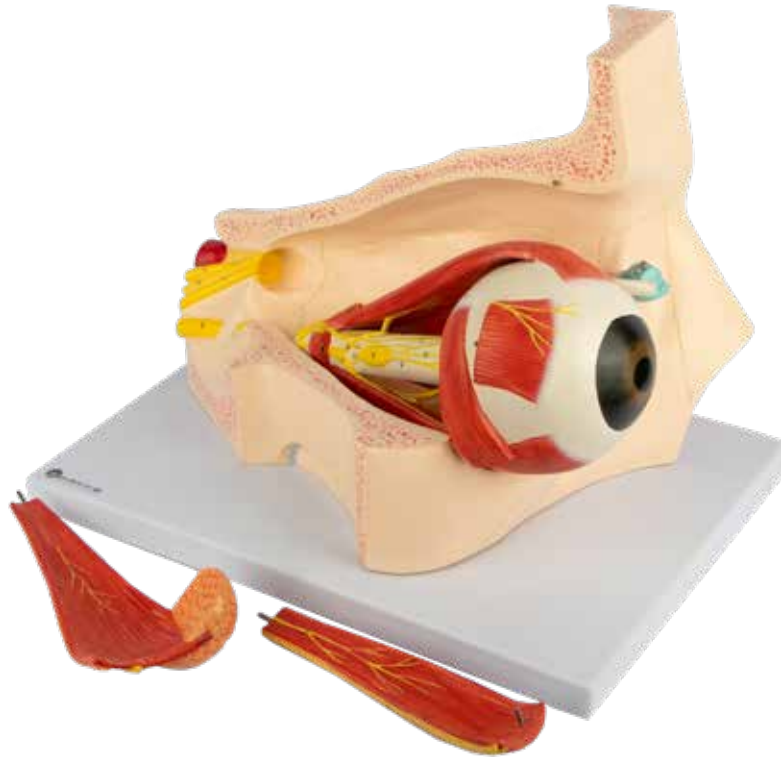
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 10*26*31.5 cm

Weight : 2850 g

ESB51215





Eye With Orbit Model, 11 Parts

This 5X life-sized model depicts the eyeball with optic nerves and muscles positioned naturally within the bony orbit. The eyeball is dissected into two removable halves, allowing for full exposure of internal structures. The removable parts include:

Cornea, iris, lens, and vitreous body (4 parts) ; Three different muscles: rectus bulbi ; Levator palpebrae superioris muscle together with the lacrimal gland
 Eyeball with extraocular muscles (2 parts) Base of the bony orbit

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*26*31.5 cm

Weight : 1300 g

ESB51216



Eye With Orbit Model, 13 Parts

This 13-part model, enlarged approximately 2.5 times life-size, illustrates the anatomy of the human eye. The orbit can be opened into three parts to reveal internal structures, including: Eyelid with lacrimal gland and duct ; Muscles (4 parts) ; Eyeball dissected into two removable halves ; Cornea, iris, lens, and vitreous body (3 parts)

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 21*20*24 cm

Weight : 2000 g

ESB51217





Enlarged Auditory Bone, Tympanic Membrane, Cochlea Model, 3 Parts

This model, comprising three parts, includes representations of the inner ear, auditory ossicles, and tympanic membrane.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51221



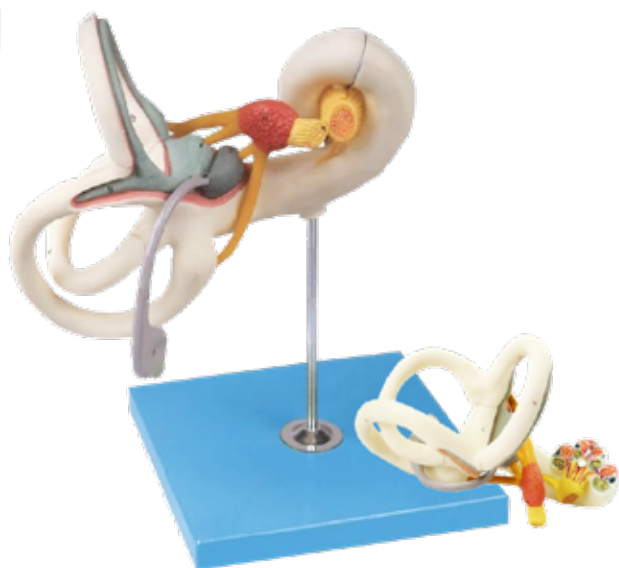
Labyrinth Model, 2 Parts

This labyrinth model, enlarged about 18 times, consists of 2 parts. The superior semicircular canal and vestibule are open, revealing the saccule and utricle.

Dimensions : 32*21.5*14.5 cm

Weight : 1000 g

ESB51223



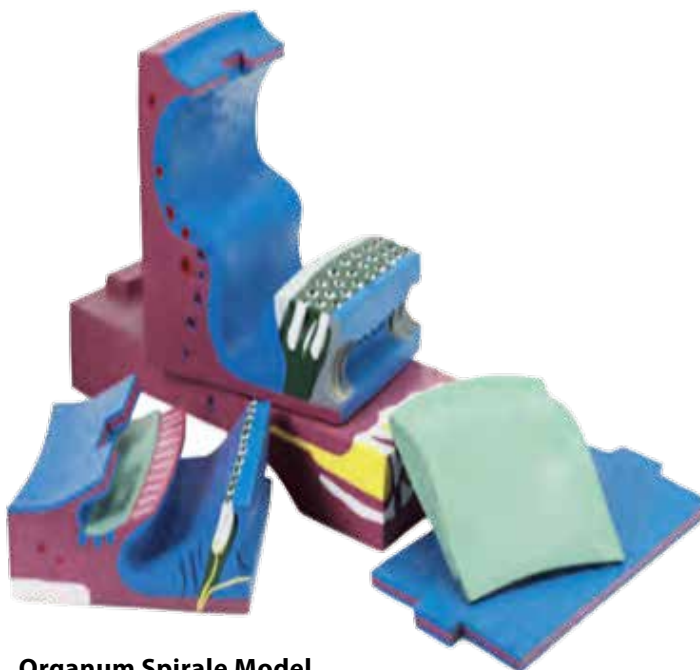
Labyrinth Model

This labyrinth model features an open superior semicircular canal and vestibule, providing a view of the saccule and utricle.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Weight : g

ESB51222



Organum Spirale Model

The Organum Spirale model, enlarged to 350 times life size and composed of 5 parts, showcases a three-dimensional section of the cochlear duct, tectorial membrane, basilar membrane, and vestibular membrane. It accurately represents the organ of Corti, including the cellular acoustic receptors responsible for transforming sound vibrations into electric signals.

Dimensions : 10*26*31.5 cm

Weight : 2850 g

ESB51224





Cochlea & Corgi's Organ Model

This model is designed for studying the mechanism of sound propagation. It displays magnified sections of the cochlea and the organ of Corti, which includes detailed representations of hair cells, the tectorial membrane, and the basement membrane.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*26*2.5 cm

Weight : 1250 g

ESB51225



Ear Model, 3 Parts, 3 Times Enlarged

3X life size. The model shows details of the external, middle and inner ear. The eardrum with malleus, incus and stapes are removable. The other removable part is composed of the cochlea and labyrinth with vestibular and cochlear nerves.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 23*23*34 cm

Weight : 1300 g

ESB51162



Ear Ossicles Model

This model depicts the malleus, incus, and stapes, which are the ear ossicles, enlarged approximately 20 times their natural size.

Dimensions : 21*14.5*31 cm

Weight : 480 g

ESB51226



Ear Model, 5 Parts, 3 Times Enlarged

3X life size. The model shows the external, middle and inner ear. The eardrum with malleus, incus and stapes are removable. The other removable parts are composed of: cochlea and labyrinth with vestibular and cochlear nerves, 2 bone sections that define the middle and inner ear.

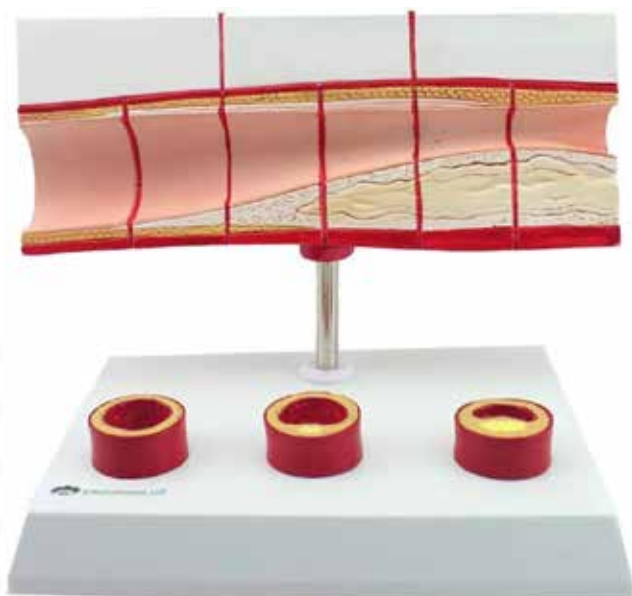
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 23*23*34 cm

Weight : 1300 g

ESB51163





Arteriosclerosis Model with Thrombus

This model demonstrates the process of vascular disease. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51230



Arteriosclerosis Model With Thrombus

Atherosclerosis is the most common acquired disease of arteries in developed countries. This pathology. Characterized by thickening of the arterial walls with subsequent loss of elasticity, is associated with the build up of plaque (mainly cholesterol) in the arterial lumen. This model, approximately 10X life size, shows the atheromatous plaque in various pathological stages along with local intra vascular clotting (thrombosis) due to the arterial narrowing.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 6.5*12.5*16.5 cm

Weight : 300 g

ESB51164



Indirect Inguinal Hernia

This half-life size model depicts the medial and sagittal section of the male human pelvis with an indirect inguinal hernia.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*9*12.5cm

Weight : 220 g

ESB51236



Heart Model With Vessel 4 Satges

This is a life-size model of the normal human heart. The anterior heart wall can be removed for internal examination. Additionally, there are four staged vessels on the base.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*14*23 cm

Weight : 450 g

ESB51240



Pathological Model Of The Lung

This 1-part, 2/3 life size model illustrates some of pathologies of the pulmonary stem caused by microbial infections (lung abscess, pneumonia and tuberculosis). The surface of the model is black to show the visible effect of smoking. A cancerous tumour is also shown with excellent detail. All pathologies are showed separately in the model with a realistic representation of their morphology.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 11*11*20 cm,

Weight : 290 g

ESB51179



Pathological Model Of Renal Calculus

This model represents a pathological condition known as renal calculus, commonly referred to as a kidney stone.

The model is securely mounted on a base, providing stability for educational or display purposes.

ESB51237



Pancreas , Gallbladder,Spleen Model

Full size model shows pancreatic cancer, the gallbladder with stones, a ruptured spleen and duodenal ulcer.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 12*19*24 cm

Weight : 500 g

ESB51108



Four Staged Vessels Model

Four-stage cross-section of an artery demonstrating progressive atherosclerosis in which the narrowing of the artery is due to a build up of fatty tissue (cholesterol) and plaque shown in. Shown in four stages: normal artery, fatty streak, fibrous plaque, and blockage. The stages cause a decrease in blood flow, which can lead to a blood clot or thrombus. All stages rotate on hinge pin. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*14*5 cm

Weight : 400 g

ESB51165





Diseased Nose And Throat (Quinsy) Model

This pathological model depicts the human nose and throat, focusing on the condition known as quinsy.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51241



Pathological Model Of Renal Calculus

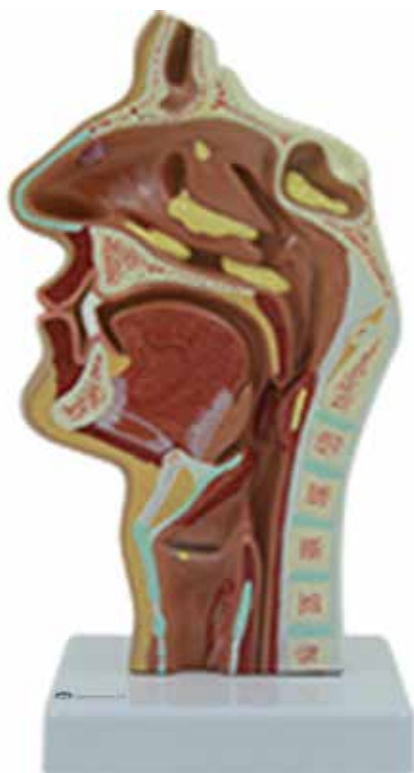
This is a pathological model depicting renal calculus, commonly known as a kidney stone.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 32*21.5*14.5 cm

Weight : 1000 g

ESB51238

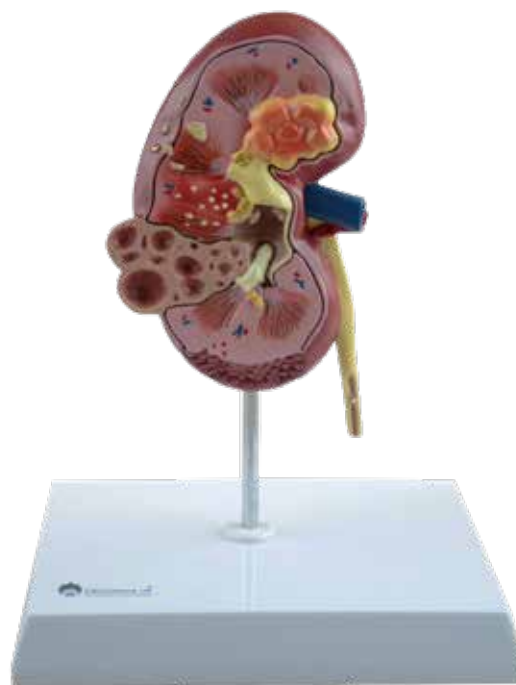


Diseased Nose & Throat (Rhinitis) Model

This labyrinth model features an open superior semicircular canal and vestibule, providing a view of the sacculle and utricle.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51242



Diseased Kidney Model

This oversized two-sided kidney model has a normal anatomy cutaway on one side and a diseased anatomy cutaway on the other side depicting: infection, scarring, atrophy, urinary (kidney) stones, tumor, polycystic disease, hypertension effects,

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 16.5*13*21 cm

Weight : 370 g

ESB51171

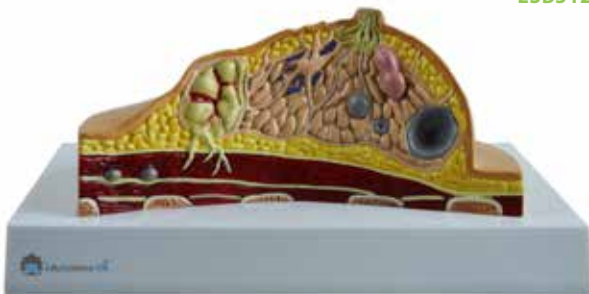




Diseased Breast Model

This is a pathological model representing the human breast.
Dimensions : 20*12*14 cm,
Weight : 700 g

ESB51244



Diseased Breast Model

Full size cross-section model depicts common pathologies such as adenocarcinoma, cysts, fibroadenoma, and infiltrating scirrhous carcinoma.

Model also shows breast structures such as suspensory ligaments, fat tissue, lymph nodes, muscles, and ribs.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 21*15*10 cm

Weight : 500 g

ESB51172



Diseased Uterus / Uterus-Ovary Model

Full size cross-section model illustrates multiple pathologies, some of which include: adhesions, carcinoma in four common areas, cysts, endometriosis, fibroids - PEDunculated fibroid tumour, polyps and salpingitis,

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 24*12*20 cm

Weight : 600 g

ESB51173



Diseased Uterus Model

This life-size model, sectioned along the frontal plane and divided into two pieces, displays the most significant pathologies of the female reproductive system. It features four types of fibroid tumors (intramural, subserous, submucous, and broad ligament myoma) in their appropriate locations. Additionally, it shows endometrial carcinoma and carcinoma of the cervix. Other pathologies depicted include uterine polyps, salpingitis, oophorocystosis, endometriosis, and candidal vaginitis.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 25*12*14 cm

Weight: 700 g

ESB51247



Pathological Model Of The Male Urogenital System

This life-size 2-part model depicts the internal structure of the male urogenital system, showcasing specific pathologies. These include gallstones, diverticulum, cancer of the urinary bladder, and sexually transmitted diseases such as condyloma acuminatum and gonorrhea. Additionally, the model features the rectum and anus, exhibiting mixed hemorrhoids and carcinomas.

model is securely mounted on a base and stand , providing stability for educational or display purposes.

Dimensions : 15*18*8 cm

Weight : 800 g

ESB51248





Diseased Large Intestines Model

Cut-away view model with the following common pathologies: adhesions, appendicitis, bacterial infection, cancer, Crohn's disease, diverticulitis, diverticulosis, polyps, spastic colon, and ulcerative colitis. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 19*15*23 cm

Weight : 700 g

ESB51174



Pathological Model Of Colon And Rectum

This half-life size model depicts various pathologies of the colon and rectum. In the descending colon region, adhesion and cancer are accurately represented, while other pathological conditions include inflamed appendix, intussusception, Crohn's disease, ulcerative colitis, and adenocarcinoma. The rectum exhibits an ulcerative form of rectal cancer.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 18*15.5*29 cm

Weight : 480 g

ESB51249



Diseased Stomach, Model

This one-piece life-size model illustrates the most common pathologies of the stomach, including ulcerated gastric cancer, pyloric stenosis, gastric ulcer, chronic atrophic gastritis, hiatal hernia, bleeding gastritis, and carcinoma. All pathologies are represented in high detail for comprehensive study and understanding. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51231

Pathological Model Of The Rectum



This 1-piece model, approximately 5X life size, shows various pathologies of the rectum and anus. Common anorectal conditions, including haemorrhoids, anal fistula and fissures and 2 types of abscesses are shown in great detail. The model also illustrates ulcerative colitis, polyps and rectal carcinoma.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*12*24 cm

Weight : 200 g

ESB51185



Pathological Model Of Esophagus

This model, enlarged to 5 times life size, displays the esophagus in longitudinal section, revealing common pathologies. These pathologies include ulcers (two types), erosions caused by acid reflux, diverticula, varicosities, and esophageal cancer.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*11*25 cm Weight : 160 g

ESB51250





Diseased Brain Model

This is a pathological model representing the human brain. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 21*15*10 cm

Weight : 500 g

ESB51251



Pathological Model Of Bronchial

This 10X life size, 1-part model, shows 2 pathologies of the bronchi (bronchitis and bronchiectasis), referring to an inflammation and an abnormal chronic dilatation of one or more of the bronchi, respectively. The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 11*11*20.5 cm

Weight : 240 g

ESB51180



Pathological Model Of The Liver

This 1/3 life size model is divided into 2 parts; the following diseases are represented with great detail and realism: - Viral hepatitis - Liver abscess - Fatty liver - Cirrhosis - Liver cancer - Gallstones All the pathologies are showed separately in the model with a realistic representation of their morphology.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 16*11*11 cm

Weight : 240 g

ESB51181



Pathological Model Of The Pancreas

,Duodenum And Gallbladder

This life size model is a representation of the most important diseases of the gallbladder, pancreas and duodenum.

The gallbladder, partially opened, shows the stones located in various locations, cholecystitis, polyposis and carcinoma. Diseases of the pancreas include pancreatitis in the pancreas tail and cancer in the pancreas head. Also included is a section of the duodenum with a duodenal ulcer.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 17*11*11 cm

Weight : 280 g

ESB51182





Pathological Model Of Burned Skin

This model, approx. 30 times enlarged, compares normal skin with first, second and third degree burnt skin, showing also the subsequent pathological changes. The first level of injury shows scarf skin hurt and erythema; the second one includes hypodermic skin hurt and vesicles, the third one reveals a subcutaneous damage.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*14*7.5 cm

Weight : 360 g

ESB51183



Normal & Diseased Prostate Gland Model

This is an excellent educational tool for studying common prostate pathologies. The model consists of three prostate sections, including the rectum and urinary bladder. The first model shows the internal and external structures of a normal prostate. The second one illustrates benign prostatic hyperplasia, characterized by variable fibromuscular and epithelial predominance. The third model illustrates prostatic adenocarcinoma.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 20*15*17 cm

Weight : 580 g

ESB51175



Pathological Model Of The Skin

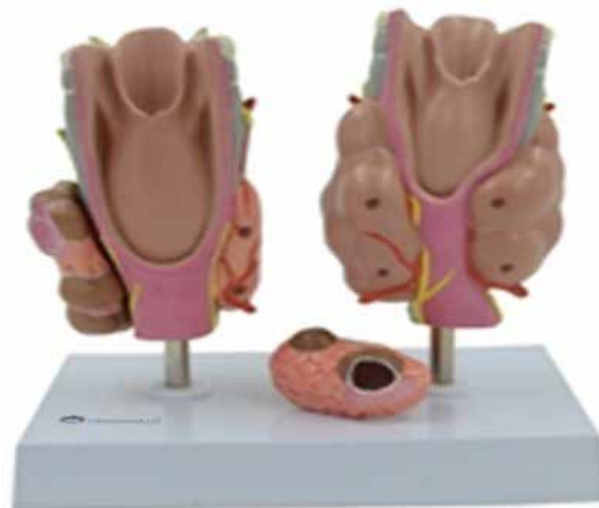
This model approximately 30X life size, features, on the one side, detailed and realistic depictions of closed and open acne lesions, 2 primary lesions (papule and macule), 1 deeper lesion (nodule) and an abrasion. On the other side the model shows cyst, fissure, pustule, ulcer, scale and blister. All the pathologies are showed separately in the model with a realistic representation of their morphology.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 18*14*11.5 cm

Weight : 340 g

ESB51184



Thyroid Diseases Model - 4 Parts

This model is composed by 2 thyroid models divided four ways. The first thyroid illustrates the Graves autoimmune disease, the most common cause of hyperthyroidism. The other model shows thyroid adenoma and carcinoma as compared to the normal right side of the thyroid.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

Dimensions : 20*18*12 cm

Weight : 1000 g

ESB51176





Diabetes Model

This model shows the effects of diabetes on eye, heart, kidney and foot. The organs can be rotated for a detailed examination. The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 18*14*35 cm

Weight: 900 g

ESB51186



Hypertension

This model demonstrates the effects of hypertension on various organs including the brain, eye, heart, kidney, and artery. The organs are designed to be rotatable for detailed examination. It is mounted on a base with a stand.

The model is securely mounted on a base and stand, providing stability for educational or display purposes.

Dimensions : 33*24*10 cm

Weight: 1000 g

ESB51256



Diabetes Model

These miniature models depict various organs and structures including the brain, eye, heart, kidney, artery, pancreas, neuron, and foot. They are used to illustrate different pathological conditions associated with diabetes, including stroke, ocular pathology, hypertensive heart disease, hardening of the kidney, hardening of the arteries, insulin resistance, neuropathy, and foot ulcerations.

The model is securely mounted on a base with a stand, providing stability for educational or display purposes.

ESB51255



Nephron Diseases Model

This 300X life-size model comprises two renal corpuscle sections: the first illustrates the anatomy of a healthy glomerulus, while the second highlights the significant glomerular pathologies associated with hypertension. These pathologies include afferent arteriole arteriosclerosis, changes in vascular caliber, endothelial cell alterations, and the consequent increase of plasma proteins in the urine. All details are represented in high detail for comprehensive study.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 20.5*15*6.5 cm,

Weight : 110 g

ESB51257





Ear Diseased Model 1.5 Life Size

This 1.5X life-size model illustrates the most common pathologies affecting the outer, middle, and inner ear. It features representations of mucus and secretory otitis media at the level of the Eustachian tube, along with detailed depictions of cholesteatoma and eczema. Additionally, the model includes additional reliefs showcasing a comparison of three different eardrums: a healthy eardrum, one exhibiting a perforation, and another displaying bullous meningitis.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 14*10.5*17 cm,

Weight : 188 g

ESB51258



Osteoporosis Model Life-size

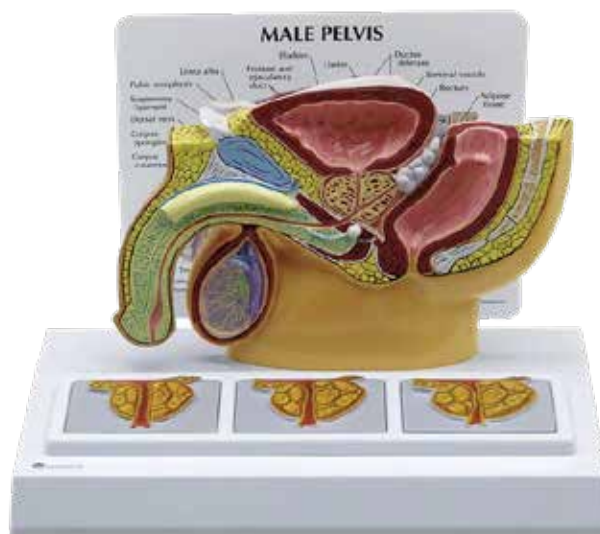
This life-size model features three vertebrae: one healthy vertebra, one vertebra with pathological changes at the first stage, and another vertebra with pathological changes at an advanced stage.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 12*12*11 cm

Weight : 1000 g

ESB51259



Male Pelvis Model With 3D Prostate Frame

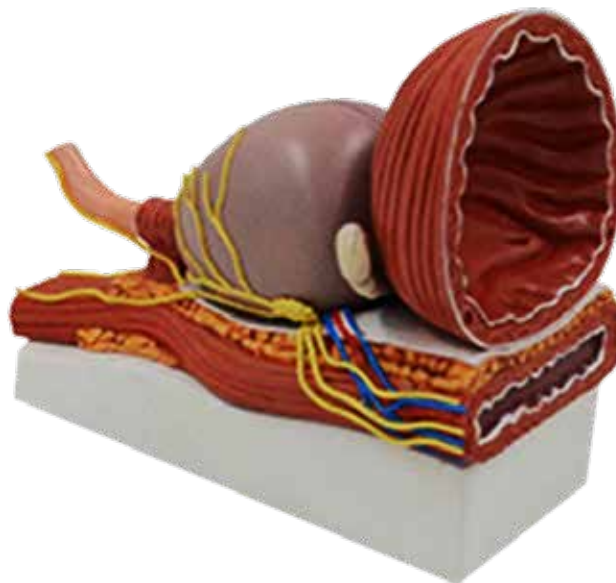
This model is a reduced-size representation, featuring a mid-sagittal section of the male pelvis. The base of the model includes three 3-dimensional cross-sections of the prostate gland. These sections illustrate different stages (normal, moderate, advanced) of BPH (Benign Prostatic Hyperplasia/Enlarged Prostate).

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 22.5*16*14 cm

Weight : 660 g

ESB51260



Diseased Prostate Glands Model

This model is composed by 2 thyroid models divided four ways. The first thyroid illustrates the Graves autoimmune disease, the most common cause of hyperthyroidism. The other model shows thyroid adenoma and carcinoma as compared to the normal right side of the thyroid.

The model is securely mounted on a base, providing stability for educational or display purposes.

ESB51261





3 Lumbar Vertebra Model With Hernia

This life-size model displays three lumbar vertebrae accompanied by spinal nerves, dura mater, and two intervertebral discs affected by lateral and medial herniation. It provides a detailed view of the two pathological intervertebral discs, showcasing the correct positioning of both types of hernias. Mounted on a base with a stand,

Dimensions : 20*17*21 cm

Weight : 600 g

ESB51363



2 Lumbar Vertebra Model With Hernia

This life size model shows 2 lumbar vertebrae with spinal nerves, dura mater and an inter-vertebral disc affected by medial hernia. On the base you can see in high detail 2 pathological inter-vertebral discs with the correct position of medial and lateral hernia.

Dimensions : 12*12*14 cm

Weight : 300 g

ESB51066



4-Stage Vertebrae Model

Set of four, full size two-piece vertebrae models - one each of the following conditions: normal, (bulging) herniated disc, bone and disc degeneration, and advanced osteoporosis with marked bone compression and bone spurs.

Dimensions : 18*15*14 cm,

Weight : 800 g

ESB51167



4-Stages Diseased Vertebra Model

4-Stage Vertebrae Model Set of four, full size two-piece vertebrae models one each of the following conditions: normal, herniated disc, bone and disc degeneration, and advanced osteoporosis with marked bone compression and bone spurs.

Dimensions : 28*16*10 cm,

Weight : 1000 g

ESB51166



Micro Anatomy Of Artery & Veins

The model shows a medium-sized muscular artery with two adjacent veins from the ante-bronchial area with adjoining fat tissue and muscle enlarged 14 times. The model illustrates the reciprocal anatomical relationship of artery and vein and the basic functional techniques of the venous valves ("valve function" and "muscle pump"). The left vein and the middle artery are fenestrated in the upper anterior segment, revealing the various layers of the wall structure in a cross and longitudinal section and in top view. The right vein is opened throughout in the anterior segment, revealing the orifice of a feeder vein and two venous valves, i.e. "flap valves" formed by a duplication of the tunica intima. On the rear of the model, the relief of two veins is shown to illustrate the functional aspect of the venous valves. This model mounted on a base.

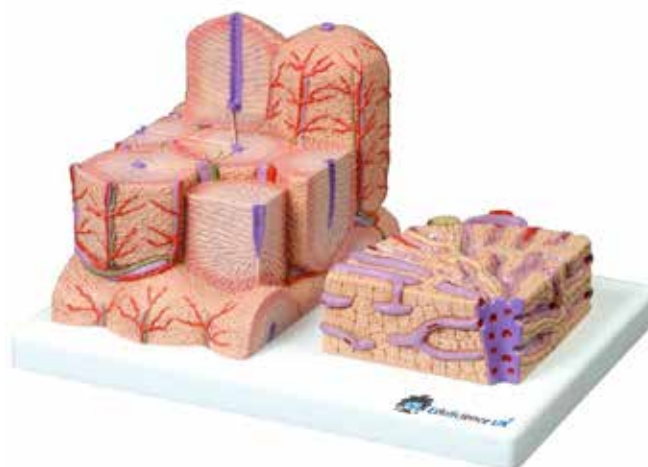
ESB51191



Micro Anatomy Of Liver

This two part model shows a highly magnified diagrammatic view of a section of the liver. It illustrates the structure of the functional and structural components of the liver in two different enlargements. The left part of the model shows a section of the liver that comprises several liver lobules. The right part of the model is a highly magnified view of the sectional liver lobule on the left.

ESB51192



Micro Anatomy Of Eye

The model illustrates the microscopic structure of the retina with choroid and sclera. The left block-like, layered side of the model side shows the complete structure of the retina including the supplying vascular layer and parts of the sclera from a light microscopic view. The right part of the model is a sectional enlargement. It shows the microscopic structure of the photoreceptors and the cells of the pigmented layer.

ESB51190



Taste Discrimination

Can you taste it? Students explore their ability to taste four sensations: sweet, sour, salt, and bitter in a blind taste test. Students examine PTC inheritance, as well as their tendency to eat certain types of foods. An ideal biology lab for learning about genetic inheritance or for studying human anatomy. This kit features two lab experiments which can be completed in one hour or separated into two thirty minute activities. Required, but not included: dedicated lab-ware for measuring taste test substances, which may be consumed. Designed for 24 students working in groups of two. Grades 9-12

ESB51187

Taste Discrimination Refill

ESB51188



Cell Mitosis Model 8 Stages

This item is composed of 8 different pieces showing the main stages of the cell mitosis (prophase, metaphase, anaphase and telophase) at an enlargement of approx. 10000 times. During all stages you can observe the different characteristics of the cellular structures such as chromosomes, centrioles, spindle and nucleus. Every single piece is numbered to indicate the correct sequence of steps.

The model is securely mounted on a base , providing stability for educational or display purposes.

ESB51391



Mitosis, Mounted Model-9

Stages

The eight separate stages of ESB51392 numbered , with key. 9 parts.

ESB51393



Mitosis (Mitotic Cell Division)

A robust plastic model showing eight stages of mitosis. The model is carefully coloured for maximum clarity and teaching value. Each stage is numbered and a key is attached.

Base size 33*39cm.

ESB51392



Cell Mitosis Model

This item is composed of 9 different pieces showing the main stages of the mammal cell mitosis (prophase, metaphase, anaphase and telophase) at an enlargement of approx. 10000 times. During all stages you can observe the different characteristics of the cellular structures such as chromosomes, centrioles, spindle and nucleus. Every single piece is numbered to indicate the correct sequence of steps.

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 33.5*23.5*29 (Each Piece)

Weight : 2050g

ESB51394



Meiosis (Reduction Division) Model

This unique and high-quality model illustrates the 10 stages of the process of Meiosis. Each stage is meticulously hand-painted and mounted on a perspex base for clear viewing and educational purposes

ESB51389



Meiosis,Unmounted Model

Showing the same ESB51389 ten distinct stages, each meticulously numbered and accompanied by a corresponding key for easy identification. This model comprises a total of 13 parts, providing a comprehensive understanding of the depicted process.

ESB51390

Cell Meiosis Model

This item is composed of 12 different pieces showing the main stages of the mammal cell meiosis (prophase I, metaphase I, anaphase I, telophase I, cytokinesis I, prophase II, metaphase II, anaphase II, telophase II and cytokinesis II) at an enlargement of approx. 10000 times. During all stages you can see the different characteristics of the cellular structures such as chromosomes, centrioles, spindle and nucleus. Every single piece is numbered to indicate the correct sequence of steps.

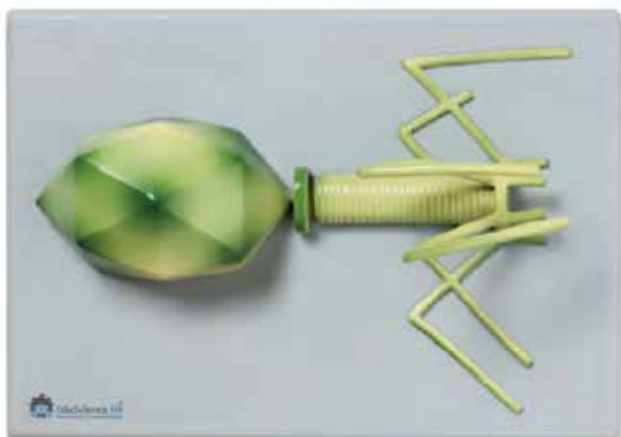
The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 41*32*21cm (Each Piece)

Weight : 2400g

ESB51388





Bacteriophage T4 Model

The structure of bacteriophage T4, a virus that attaches to the surface of the much larger bacterium *Escherichia coli*, is shown millions of times enlarged life size.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 28*28*28 cm

Weight : 2000 g

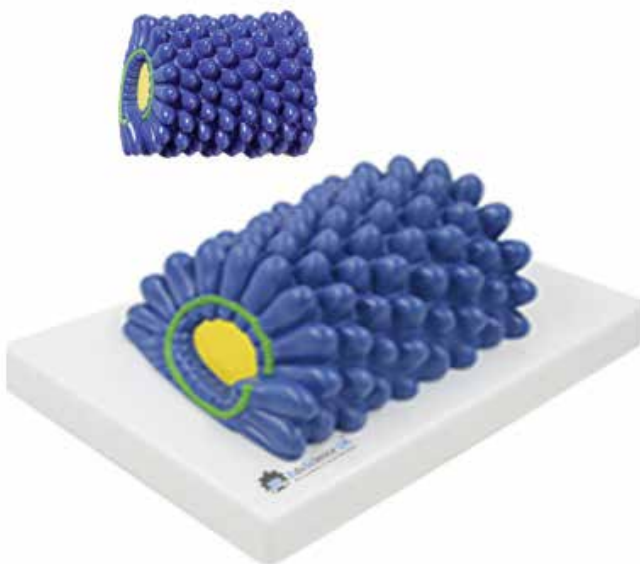
ESB51478



Aids Virus Model

An enormously magnified model of the HIV virus, showing the outer lipid membrane with protein structures and the internal RNA. The internal structure is removable. Dimensions : 18*13*13 cm

ESB51469



Tobacco Mosaic Virus Model

This model, enlarged millions of times, shows the capsid structure of the tobacco mosaic virus, including the viral genome (RNA).

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 20*15*9 cm

Weight : 80 g

ESB51476



HIV Virus Model

This model, enlarged millions of times, shows the structure of the HIV retrovirus, including the outer lipid membrane with protein structures and the internal nucleus containing the viral genome (RNA).

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 43*30*18 cm

ESB51470



Adenovirus Model

This model shows the capsid structure of the adenovirus, enlarged millions of times. .

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions :20*15*9 cm

Weight : 90 g

ESB51477

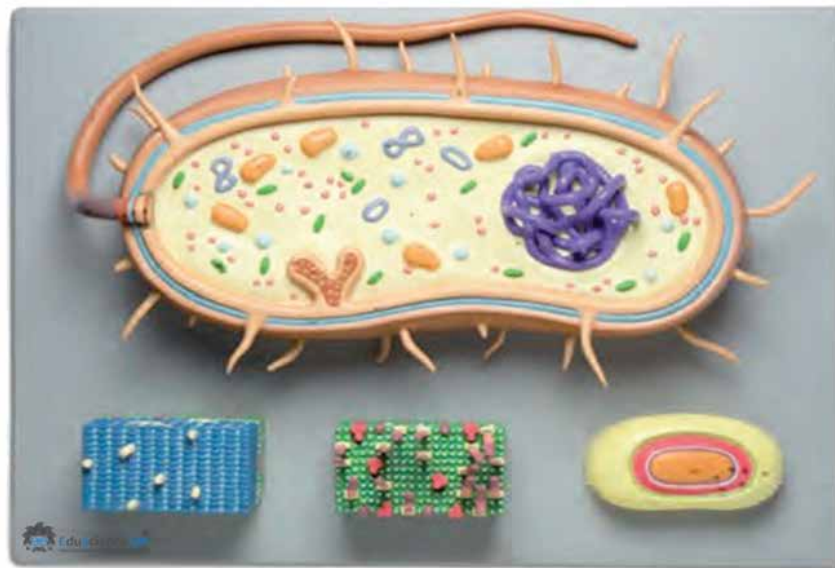


Bacteriophage , Adenovirus Phage Virus HIV Virus Model

This model features a design magnified up to 1 million times, providing intricate details of the typical anatomical structure and image characteristics of Bacteriophage, adenovirus, phage virus, and HIV. It serves as a rare and invaluable resource for microbiology learning and teaching. Crafted from durable PVC through meticulous handmade techniques, this model ensures longevity and robustness, making it highly suitable for in-depth research in human virology.

Weight : 3000 g

ESB51475T



Bacterium Model

A complete tool for understanding the structure of the prokaryotic cell. This item, greatly enlarged, is composed of four models on the same base:

A cross-section of a general prokaryotic cell, illustrating typical structures as pili, flagella, inclusion body, plasmids and chromosome Two schematic representations of the cell wall of Gram-negative and Gram-positive bacteria

A model of spore, partially cut away to show all its different layers, from the exosporium to the cytoplasmic membrane.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 55*38*15 cm

Weight : 3500 g

ESB51475





Dietary Chemical Assessment

The purpose of this kit is to provide students with the necessary tools for evaluating their own dietary requirements in a very scientific way. Students learn about sources of energy, proteins, vitamins, and minerals; and the functions of these nutrients within their bodies. They record their food intake over a three-day period. By using the food charts provided and internet resources, they determine their average daily caloric intake. Then they determine their basal metabolic rates and average energy expenditures over the three-day period. They also determine the number of calories they should obtain from carbohydrate, lipid, and protein sources to satisfy their energy expenditures based on the percentage of the total energy requirement each nutrient should supply. Finally, students compare their intake of vitamins and minerals to the recommended dietary allowances. From this information, students may identify and correct any dietary imbalances that occur and restructure their food intake. Grades 6-12

ESB51468



Grip Dynamometer

Hand Dynamometer Grip Strength Meter!! Handy and reliable!!

Handy dynamometer is ideal for routine screening of hand grip strength at home or in school.

Dynamometer measures isometric grip force from 0 – 130 Kg Size : Approx. 10.5cm x 14cm x 2cm / 4.13" x 5.51" x 0.79" Unit : Kg

Package includes : 1 x Hand Dynamometer Grip Strength Meter

ESB51471



Food Calorimeter II

Open at both ends (205 x 100) mm (height x diameter). A circular metallic disc of diameter 100 mm with a boss head for mounting on a 13 mm retort rod used as the floor of the combustion chamber. The whole assembly is fitted on a (200 x 130) mm rectangular base with a rod of 13 mm diameter.

ESB51473



Food Calorimeter

The food calorimeter allows students to determine the amount of energy released through the burning of food. This easy to use method involves the measuring of the change in temperature of a sample of water from the combustion of a small amount of food. The included experiment introduces concepts in thermodynamics and leads to an understanding of energy and its relation to food consumption.

Supplied with instruction manual Kit includes: -125 ml Erlenmeyer flask - Cylindrical metal stand - Metal suspension plate - Cork and nail food sample holder - Rubber stopper

ESB51472

Skin Fold Calliper

Body fat tester designed to measure the thickness of a fold of skin with its underlying layer of fat. Convenient trigger operation with pistol- grip handle. Direct reading scale measures 0 to 85 mm and is accurate to 0.5 mm. Durable, accurate, and easily used by students. Complete instructions included.

ESB51467



Respirometer, Simple

The Simple Respirometer BFS 74 is an apparatus which is used to determine how much O₂ which consumed by insect or plants. Consisting of two main parts, viz.: a glass capillary pipe and a glass bottle. The capillary pipe has scale printed clearly, not easy fade. One end of the pipe is bigger and finely grinded, used as the connector to the bottle. The glass bottle is sized 40 ml, made of borosilicate glass which is used as the specimen container. The bottle neck is also finely grinded, so it makes strong connection and free of leakage when it is attached to the capillary pipe. The main part is mounted using clamps made of steel spring on a plastic base sized 400 x 50 cm.

ESB51433



Respirometer Simple

The apparatus consists of two stoppered boiling tube connected by three-way taps to either limb of graduated manometer. Complete with wire baskets for supporting organisms. Comprising rates of absorption or evolution of gases by small organisms, during respiration. The apparatus consists of two stoppered boiling tube connected by three-way taps to either limb of graduated manometer. One tube holds the organisms and has syringe for altering the level of liquid in the manometer during setting up. The other tube acts as a control thermo barometer. CO₂ given off by the respiring organism is absorbed by potassium hydroxide in the experimental chamber resulting in a change in the level of liquid in the manometer tube. Complete with wire baskets for supporting organisms.

ESB51434





Spirometer

The Spirometer can be used for investigating tidal volumes, respiratory rate, pulmonary ventilation, reserve volumes and vital capacity. Oxygen consumption can also be measured which is useful in metabolic studies. A simple lever control enables the subject to be connected either to atmosphere or to the float for recording. A container for soda-lime crystals is fitted which can be used to absorb carbon dioxide. The spirometer is designed to offer minimum resistance to air flow. This means greater comfort for the subject and more realistic results. The tank is one piece stainless steel pressing housed in a durable painted outer case. The float is constructed from lightweight plastic. The float is calibrated 0 to 7 x 0.5 litres and has a metal counterpoise. The pen arm corresponds to approximately 0.5 litres.

Supplied with a mouth piece that fits into the corrugated breathing hoses which snugly connects into

Spirometer Also included a nose clip and pen arm for fitting data logger sensors.

Notes

1. Soda lime crystals are not supplied. | Dimensions External : 720w x 320d x 230h mm | Packed : 800 x 430x 330mm.

ESB51430



Spirometer Digital Hand Held

Digital Spirometer duplicates the performance of professional instruments by quickly and accurately measuring lung volume. Digital spirometer includes 50 disposable mouth pieces and is a nice addition to physiology, anatomy and health classes. Ideal to use with the included AC adapter or with two AA batteries for the field. The large digital display gives instant volume readouts, without having to see anymore lengthy calculations.

ESB51431

Respiration Apparatus

For inhaled and exhaled air test. Comprises two boiling tube each with stopper and two lengths, one short and one long of 5 mm glass tubing, connected by PVC tubing and plastic T.

ESB51432



Human Anatomy Chart Set

Set of 11 chart covering different topic of human anatomy includes: Skeleton * Circulatory System * Heart * Nervous System * Section of Brain * Muscles * Digestive System * Respiratory System * The Ear * The Eye * Human Kidneys each Laminated charts with hanger , size 50x70cm

ESB51524

Chart the human skeletal system

ESB51525

Chart the human musculature system

ESB51526

Chart the human urinary system

ESB51527

Chart the human nervous system

ESB51528

Chart the human respiratory system

ESB51529

Chart the human circulation system

ESB51530

Chart the human digestive system

ESB51531

Chart the human skin

ESB51532

Chart the human ear

ESB51533

Chart the human eye

ESB51534

Chart the human brain

ESB51535

Chart the human heart

ESB51536

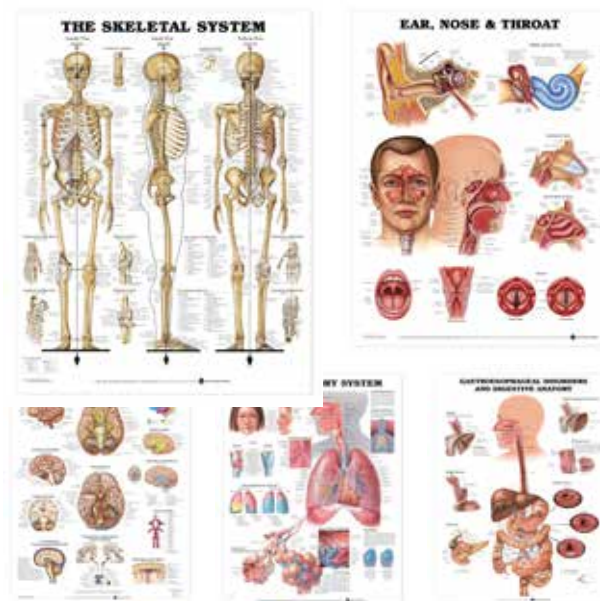
Chart the human teeth

ESB51537

Chart the human liver

ESB51538

Chart the human stomach



Human Anatomy Chart Set

Set of 11 chart covering different topic of human anatomy includes: Skeleton * Circulatory System * Heart * Nervous System * Section of Brain * Muscles * Digestive System * Respiratory System * The Ear * The Eye * Human Kidneys each

ESB51523





Photosynthesis I: The Hill Reaction

Using this kit, students carry out a partial process of photosynthesis known as the Hill Reaction, which is the proteolysis of water in isolated chloroplasts. The splitting of water with the evolution of oxygen and the release of hydrogen is measurable in the course of the reaction by the bleaching of the hydrogen acceptor using a spectrophotometer or visual examination. The Hill Reaction is run in the light and in the dark to demonstrate the light dependence of the reaction. Required, but not included: centrifuge, blender, spectrophotometer (optional), a light source, glassware, and fresh spinach or lettuce leaves. Designed for 24 students working in six groups of four.

Grades 9-14

ESB51642



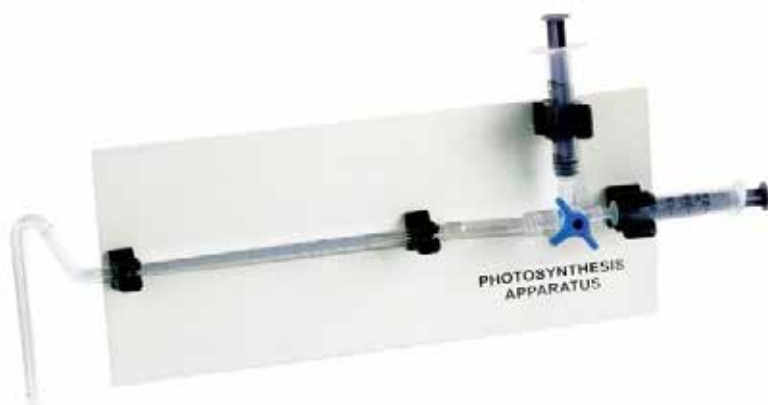
Photosynthesis II: The Synthesis Of Starch

Photosynthesis II examines the phosphorylation of glucose to produce starch in plant cells.

Students collect phosphorylase in potato extract and use it to catalyse the synthesis of starch. They learn that starch synthesis requires primer starch to which glucose residues can be added and that inorganic phosphate inhibits starch synthesis. Required, but not included: blender, fresh potatoes. Designed for 24 students working in six groups of four.

Grades 9-14

ESB51643



Photosynthesis Apparatus

For the measurement and collection of gas evolved by aquatic plants during photosynthesis. The gas evolved can be measured by the calibrated capillary tube and drawn off for analysis by the plastic syringes. Mounted on a plastic panel 190 x 150 mm approx.

ESB51644



Potometer I

deal for laboratory and field use. Allows the students to measure transpiration. The apparatus has only one glass component and is mounted on a strong backing plastic plate. It consists of Capillary tube with millimetre scale connected via three-way tap to syringe.

ESB51646



**Potometer II**

Use for measuring speed of water absorbed by plant.

Overall **Size** : 350 x 65 x 150 mm

Material : Borosilicate glass

Scaling capillary tube 0.9 x 0.01 ml

Mounted on metal plate base

Dimension : (L) 35.00 x (W) 6.50 x (H) 15.00 cm

Weight : 0.350 kg.

ESB51647

**Potometer Ganong's**

Comprises a graduated, narrow bore, horizontal glass measuring tube with a vessel for a plant shoot at one end and having a vertical limb with a stopcock and a funnel fitted by a ground glass joint. Mounted on a plastic stand.

ESB51648

**Porous Pot**

Size : 150 x 60mm height x dia.

ESB51650

**Potometer H Type**

Suitable for individual student use, the cut shoot is attached to the side arm with tubing and the wide glass tube acts as the reservoir. Glass tube 160 x 20 mm with side arm 8 mm diameter. Capillary tube length 140 mm with 1 mm Bore..

ESB51649

**Clinostate - Electrical**

For demonstration of heliotropism and geotropism. Germinating seedlings are pinned to the cork table which is rotated by an electric motor at 4 revolutions per hour. The motor is spindle mounted and may be clamped so that the place of the table can be set at any angle between horizontal and vertical. An epoxy resin cover is provided for the cork table to shield the seedlings from droughts. Diameter of cork disc 100 mm

ESB51645

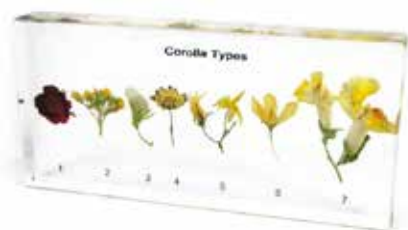




Mode Transmission Of Seed - PE

This real different Mode of seed transmissions has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped..

ESB51664



Specimen Of Corolla Types - PE

This real different type of Corolla has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. .

ESB51666



Specimen Of Inflorescence Types - PE

This real different type of Inflorescence has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. .

ESB51665



Specimen Of Rhodophyta - PE

This real Rhodophyta has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. .

ESB51667



Specimen Of Phaeophyta - PE

This real Phaeophyta,s has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. .

ESB51668



Specimen Of Law Of Gene Isolation - PE

This Corn Gene Isolation has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. .

ESB51669



Specimen Of Algae Phaeophyta and Chlorophyta and Rhodophyta - PE

This real Algae Phaeophyta and Chlorophyta and Rhodophyta has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles.

Epoxy resin block will not break even if it is accidentally dropped Block Size : 164*78*20 (±2)

ESB51671



Specimen Types Of Algae- PE

This real different type of Algae has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20 (±2)

ESB51672





Specimen Types Of Bryophytes - PE

This real different type of Bryophytes has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.. Block Size : 140*64*20 (±2)

ESB51674



Specimen Types Of Fern - PE

This real different type of Fern includes : (Nephrolepis-Dicranopteris-Adiantum-Dryopteris) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20 (±2) X4

ESB51676



Specimen Types Of Gymnosperm - PE

This real different type of Gymnosperm Includes : (Masson – platycladus orientalis - podocarpus - Ginkgo) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*20 (±2)X4

ESB51677



Specimen Types Of Phyllotaxy Sorts - PE

This real different type of Phyllotaxy Sorts has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*24 (±2)

ESB51678



Specimen Types Of Angiosperm - PE

This real different type of Angiosperm includes : (gossypium Spp – Soybean – Wheat –Corn) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 140*64*24(±2)X4

ESB51673



Specimen Types of Leaf - PE

This real different type of Leaf Includes : (Mulberry leaf - Bamboo leaf - Fern leaf - Rose leaf -. Floating flow - Four-leaf Marseille - Schefflera) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20(±2)

ESB51675



Specimen Types Of Moss I - PE

This real different type of Moss has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20(±2)

ESB51679/I



Specimen Types Of Moss II - PE

This real different type of Moss has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 164*78*20 (±2)

ESB51679/II





Specimen Types Of Lichen - PE

This real different Mode of Lichen has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 88*58*18 (±2)

ESB51681



Specimen Types Of Spore Plant - PE

This real different Mode of Spore Plant has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 88*58*18 (±2)

ESB51683



Comparison of monocotyledons and Dicotyledons - PE

This real different type of monocotyledons and dicotyledons has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Set/10

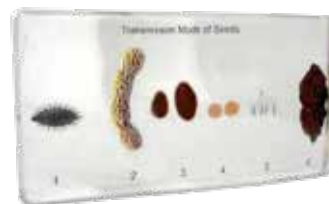
ESB51694

Specimen Types Fibrous Root System - PE

This real different Mode of Fibrous Root System has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 110*43*20 (±1)

ESB51685



Specimen Transmission Mode of Seeds - PE

This real different Mode of Lichen has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 140*64*20 (±2)

ESB51680



Specimen Types Marchantiaceae - PE

This real Marchantiaceae has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

Block Size : 73*41*20 (±1)

ESB51682



Specimen Types Fruit - PE

This real different type of Fruit has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped

Block Size : 135*90*35 (±1)

ESB51684





Different Roots System - PE

This real different type of plant roots has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51670



Specimen Of Roots

This real different type of Roots has been placed on board for observation and study. Durable, .

ESB51689



Specimen Types Taproot - PE

This real Taproot has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Block Size : 73*41*20 (±1)

ESB51686



Seed Germination

This seed germination model shows the process of seed germination. Mounted on board. Made by environmental pvc and paint.

ESB51702



Germination Model

This germination model is 5 times enlarged and for 10 times enlarged & showing beans, the rye seeds pushes up from the soil a green shoot, the bean first appears as a two leaved shoot and the shoots of the first appear from the earth first throwing out their star-shaped leaves. Mounted on base. Numbered with English Key Card

ESB51701

Germination Model Activity Set

3-D Monocot and dicot plant germination is shown on this markable 60*45cm model. The included activities support the teaching of seed development. Includes a Teacher's Guide with an overhead transparency black line master, student activities, key and glossary.

ESB51700



Fern Life Cycle Model

A series of eight models displaying the alternation of generations in the life cycle of the fern. The series is: sori on pinnule; sori after dehiscence; vertical section of sorus; structure of dehiscing sporangium; prothallus with antheridia and archegonia; section through mature archegonium; section through antheridium; gametophyte with young sporophyte. With key card, on base ,
Size : 40.5*23.5cm.

ESB51698



**Paddy Rice Germination - PE**

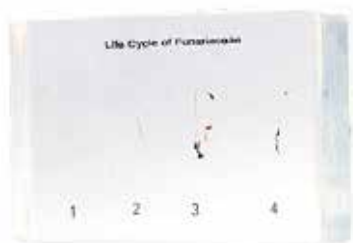
This real Paddy Rice Germination embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51717

**Wheat Germination - PE**

This real Wheat Germination embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51718

**Life Cycle Of Fumariaceae - PE**

This real Fumariaceae life cycle embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51709

**Sorghum Germination - PE**

This real Sorghum Germination embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51716

**Life Cycle Of Pine - PE**

This real Pine life cycle embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51711

**Life Cycle Of Fern - PE**

This real Fern life cycle embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51710

**Life Cycle Of Cotton - PE**

This real Cotton life cycle embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51712



Peanut Germination - PE

This real Peanut Germination Includes : (Seed - Germinate - Sprout - Taproot & Lateral Roots - Young Stem - Leaves) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20 (±2)

ESB51715

ESB51715/R



ESB51715/R



ESB51715

Peanut Germination Round - PE

ESB51713



ESB51713/R

Specimen Of Bean Germination - PE

This real Bean Germination Includes : (bean seed, seed germination, development of the root system, stem and leaves, young beans) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20 (±2)

ESB51713

Specimen Of Bean Germination Round- PE

ESB51713/R

Specimen Of Bean Germination - PE

This real Bean Germination embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped.

ESB51713ST



ESB51714



ESB51714/R

Specimen Of Corn Germination - PE

This real Corn Germination embedded in block for observation and study corn grain, germination - development of an embryonic root, germination - development of the primary root and coleoptile, further growth of roots and leaf sheath (coleoptile), seedling with leaf and root, a young plant with a developed root system and leaves). Durable, clear epoxy resin allows close up viewing from all angles; Epoxy resin block will not break even if it is accidentally dropped.

Block Size :164*78*20 (±2)

ESB51714

Specimen Of Corn Germination Round - PE

ESB51714/R

**Specimen Of Corn Germination Set - PE**

This real Corn Germination embedded in 6 blocks for observation and study. Durable, clear epoxy resin allows close up viewing from all angles; Epoxy resin block will not break even if it is accidentally dropped.

ESB51714ST

**Specimen Of Pea Germination - PE**

This real Pea Germination Includes : (Pea seed, seed germination, development of the root system, stem and leaves, young Pea) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally dropped. Block Size :164*78*20 (±2)

ESB51720



Plant Germination Set - PE

This real 10 different type of plants Germination includes : (Funariaceae, fern, bean, corn, peanut, pine, cotton, sorghum, rice and wheat) has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles..Epoxy resin block will not break even if it is accidentally dropped.

ESB51731



Soy bean and Corn Growth Process

This real of Soy bean and corn growth stages has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped.

ESB51719



Specimen Of Leaves Set - PE

This real 11 deferent Leaves includes : (cinnamon tree, bauhinia, eastern biota, maple, centella asiatica, pine, bamboo, silverwort, rose hip, desmodium) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally

ESB51687

Specimen Of Flowers Set - PE

This real 8 deferent Flowers includes : (butterfly, daisy, pyrethrum, pyrethrum maruna, cosmos doubly pinnate, spherical gomphrena, Chinese carnation, rose) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally

ESB51688



Specimen Conformation of Plant Set - PE

This real 4 deferent Conformation of Plant Includes : (Loaf - Stem - Root - Seeds - Flower) embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally

ESB51659

Specimen Of Mushrooms Set - PE

This real 8 deferent Flowers embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. Epoxy resin block will not break even if it is accidentally

ESB51691



Plant Kingdom Set I - PE

This real different type of plants has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Set includes 9 pcs .

ESB51661

Plant Kingdom Set li - PE

This real different type of plants has been embedded in block for observation and study. Durable, clear epoxy resin allows close up viewing from all angles. .Epoxy resin block will not break even if it is accidentally dropped. Set includes 20 pcs

ESB51662





Mechanisms Of Herbicides

This exercise is designed to demonstrate the effectiveness of different categories of chemical herbicides. Students transplant grasses and weeds into flats or pots and investigate how and why different plants are killed by different chemical herbicides. A simultaneous microbiological proof with inoculated agar plates is run to reinforce the results, further categorize herbicides, and determine possible effects of the herbicides on soil micro-organisms. Each group will choose two natural products and design a simple experiment to compare chemical vs. natural weed killers. A round table discussion including experimental designs, results, comparisons, and possible environmental impact culminates the exercise. Requires five class periods, plus research time. Required, but not included: heat source, flower pots or nursery flats, grass and weeds for transplanting. Designed for 24 students working in four groups of six.

For Grades 9-14.

ESB51696



Air Fern

Did you know that air ferns do not need soil or water to grow? How can such claims be true? Students will experiment, observe, and grow air ferns in six experiments as they develop questions, make predictions, and employ the scientific method to test hypotheses. Students learn to design experiments, use proper controls, limit variables, take proper measurements, and explain the data they collect. They will finally discover that the air fern is not what they have expected and conclude that the air fern is not a plant at all. Stereo microscope recommended. Designed for 24 students working in six groups of four.

For Grades 5-8.

ESB51697





General Botany Chart I Set

Set of 8 charts covering different topics General Botany - each Size 50x70cm
Includes : * Typical Plant Cell * Plant Mitosis * Meiosis * D.N.A. * R.N.A. * Bacteria * Spirogyra * Funaria.

ESB51775

General Botany Chart Ii Set

Set of 8 charts covering different topics of General Botany . Size each 50x70cm
Includes : * Plant Kingdom * Germination of Sunflower & Maize * Germination of Bean & Pea * Yeast * Rhizopus & Mucor * Fern * Insectivorous Plants

ESB51776

Individual Botany Charts

ESB51777	Chart the plant cell
ESB51778	Chart the plant mitosis
ESB51779	Chart the plant meiosis
ESB51780	Chart the dna
ESB51781	Chart the rna
ESB51782	Chart the bacteria
ESB51783	Chart the spirogyra
ESB51784	Chart the funaria
ESB51785	Chart the germination of sunflower
ESB51786	Chart the fern
ESB51787	Chart the plant kingdom
ESB51788	Chart the flower
ESB51789	Chart the stem
ESB51790	Chart the root
ESB51791	Chart the leaf
ESB51792	Chart the germination of bean & pea
ESB51793	Chart the yeast
ESB51794	Chart the rhizopus & mucor

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

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Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm

Laminated charts size 50x70 cm



Living Plants

Pond Weed

ESB51853	Egeria Densa	Oxygenator. Approx 10 strands - PEr bunch
ESB51854	Myriophyllum Scabratum	Oxygenator. Approx 10 strands - PEr bunch
ESB51855	Duckweed	"Lemna. Fast growing & free floating. Over 100 plants per pack"

Plants

ESB51856	Liverwort	Named species - PEr pack
ESB51857	Fern	Fertile fronds - PEr pack
ESB51858	Moss	Sexual stage. Named species - PEr pack
ESB51859	Moss	Ideal for the vivarium , 250g

Carnivorous Plants

ESB51860	Pitcher Plant	Generally available May-October.
ESB51861	Venus Fly Trap	Sarracenia , each
ESB51862	Sundew	Dionea , each
		Drosera , each





Dicot Leaf Model, 600 Times Enlarged

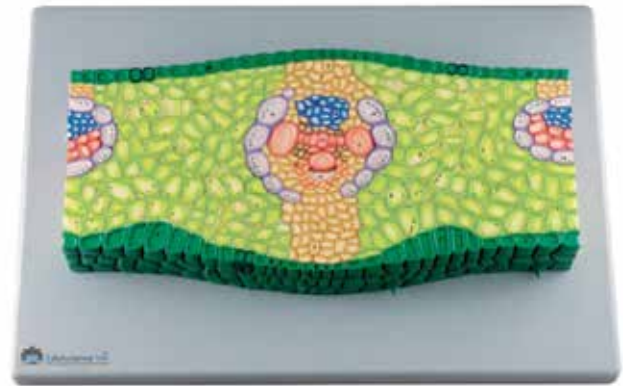
The structure of a dicot leaf is well represented in this 600X life-size model; the cross and the longitudinal section describes all the main structures and the different cellular types through the upper page, mesophyll and lower page.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 33*23*36 cm

Weight : 3500 g

ESB51947



Monocot Leaf Section Model (Zea Mays)

This model, enlarged 500X life size, shows the cross and longitudinal section of a monocot leaf. Significant structures include dorsal and ventral page, xylem, phloem and mesophyll. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions :53*38*9.5 cm

Weight : 2500 g

ESB51948



Dicotyledon Leaf Model

The leaf boasts an 8x magnification and displays a cross-section depicting the epidermis, palisade and spongy mesophyll layers, vascular bundle, and stomata. It comes with a key card for identification.

Dimensions : 42 x 30.0x 11.2 cm

Weight : 2800 g

ESB51929SP



Leaf Lilac (Stringa Sp) Model

A vertical section shows epidermis, palisade and spongy mesophyll, stomata and a small vein. A separate underside view of the leaf surface shows stomata. Both models are approx x700. Supplied with key card, mounted on base

size : 27*21cm.

ESB51928



Dicotyledon Leaf Model

A section through a typical leaf, showing epidermis, palisade and spongy mesophyll, vascular bundle and stomata. Supplied with key card.

Size : 15*10*6cm.

ESB51929





Dicotyledon Stem Model (Helianthus S)

The top surface of the model represents a transverse section of a wedge shaped sector of the stem and includes all the tissues from epidermis to pith. One entire vascular bundle is shown and half an adjacent one. The interfascicular tissues and vascular bundle are shown in longitudinal section. The outer surface represents a view of the epidermis with stomata. Supplied with a key card.

Dimensions : 38*30*8 cm.

ESB51934



Dicotyledonous Stem Model

This is enlarged dicotyledonous stem model, with manual. The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 70*30*58 cm

Weight : 2200 g

ESB51951



Monocot Stem Anatomy Model T.S. Or L.S.

Exhibits the various tissues and scattered closed and collateral vascular bundles in transverse and longitudinal sections in maize. The large pitted vessels, spiral and annular vessels show the anatomy of monocot stem. On base. Supplied with English Key Card.

ESB51936



Dicot Stem Anatomy Model T.S. & L.S.

Model shows the transverse and longitudinal section of a dicotyledonous stem in which case the cambium ring has been formed but no secondary growth has yet taken place. Very useful model for study of epidermis, cork layer, cork cambium, cortical parenchyma, starch sheath medullary rays, phloem, sieve plate, sieve tube, phloem parenchyma and inter fascicular cambium, xylem, pitted vessels pith etc. Mounted on base. Numbered With English key card.

ESB51935



Woody Dicot Stem (TILIA) Model

A sector of a two-year-old stem with transverse, longitudinal and tangential sections. Shows development of annual growth rings. With key card.

Dimensions : 35.5*25*6 cm.

ESB51945



Monocotyledon Stem Model (Zea Mais)

Transverse and longitudinal sections of all tissues from epidermis to pith are included on this model. Two entire vascular bundles are shown, one entering into the stem from a leaf trace. Another two vascular bundles are shown in section, with longitudinal detail of the cells. Supplied with key card.

Dimensions : 40.5*23*5 cm.

ESB51937





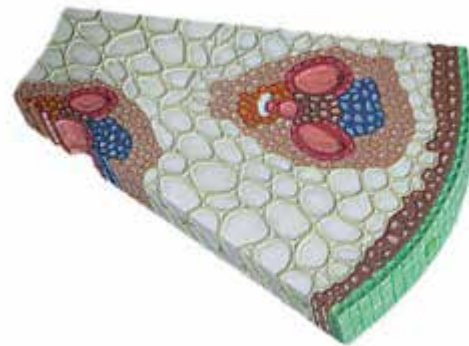
Dicotyledon Stem Model (Helianthus S)

The top surface of the model represents a transverse section of a wedge shaped sector of the stem and includes all the tissues from epidermis to pith. One entire vascular bundle is shown and half an adjacent one. The interfascicular tissues and vascular bundle are shown in longitudinal section. The outer surface represents a view of the epidermis with stomata. Supplied with a key card.

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 38*30*8 cm.

ESB51934N



Monocot Stem Section Model (Zea Mays)

This model, enlarged 400X life size, shows a cross and longitudinal section through a monocot stem. Epidermis, cortex, central vascular cylinder and all the significant internal structures are well represented. The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 33*23*7.5 cm

Weight : 1000 g

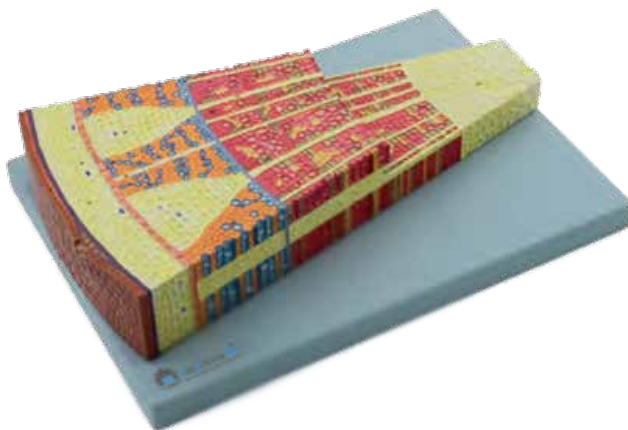
ESB51937N

Open Collateral Conducting Bundle Of a Dicotyle stem Model

This model shows the open collateral conducting bundle of a dicotyle stem

The model is securely mounted on a base , providing stability for educational or display purposes.

ESB51927



Dicotyledon Stem Model (Helianthus S)

This model, enlarged 300X life size, shows the structure of a dicot wooden stem. Longitudinally and cross sectioned, it shows significant elements of the cortex and central vascular cylinder.

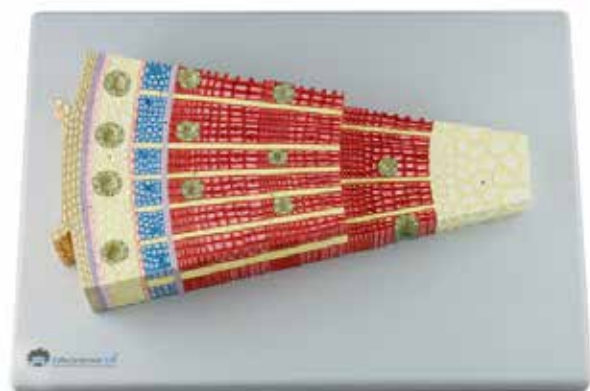
All different structures are displayed in different color.

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 42*30*11.5 cm.

Weight : 1600 g

ESB51945N



Gymnosperm Stem Model (Pinus silvestris)

This 350X life size model shows in great detail the section of a pinus silvestris 3- year old stem. It describes all basic structures of the gymnosperm stem, including epidermis and vascular cylinder. The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 30*38*9.5 cm

Weight : 1600 g

ESB51946





Dicot Root Section Model (Leguminosae).

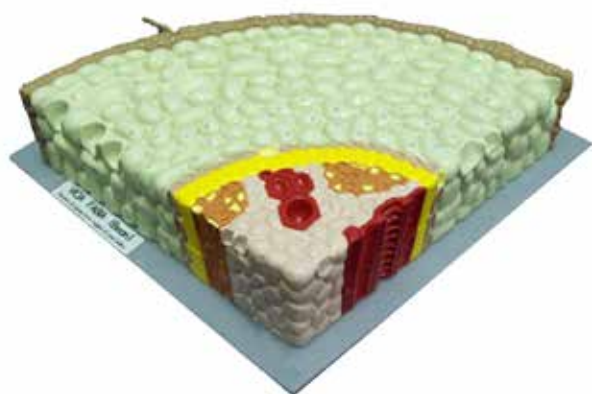
This 3-part model, enlarged 400X life size, shows the structure of a dicot root in a cross and longitudinal section. All significant structures are well represented in great detail. The model is divided in 3 segments including the following: the first part describes the root tip with cap, the second one illustrates the distension zone and the last one part shows the meristematic mature region.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 33*23*7.5 cm

Weight : 1000 g

ESB51949



Dicotyledon Root Model (Vicia Fabia)

A section through a typical dicotyledon root in the region of the root hairs. One side shows a longitudinal section through phloem and the other through xylem together with adjacent tissues.

Radius of section 17cm, thickness 6 cm. Supplied with a key card.

ESB51932



Monocot Root Model (Zea Mays)

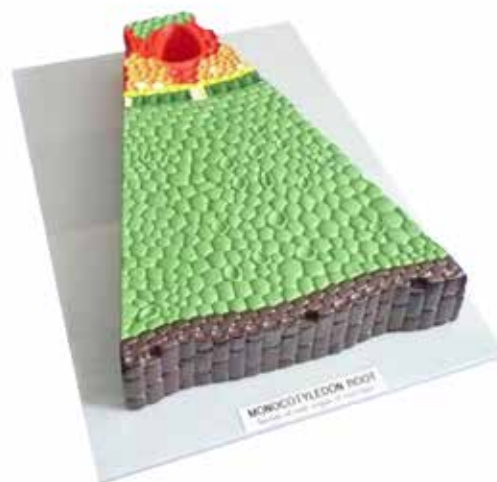
This 200X life-size model shows the structure of a typical monocot root in a cross and longitudinal section. This model is divided into 3 segments, including the following: zone of primary structure, zone of distention cells and meristematic zone.

All the different structures and cellular types are numbered and identified on the accompanying manual

The model is securely mounted on a base with a stand, providing stability for educational or display purposes. Dimensions : 33*23*158 cm

Weight : 2800 g

ESB51950



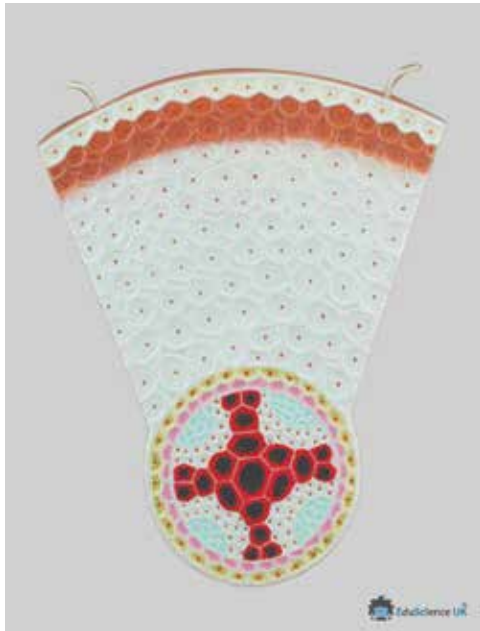
Monocot Root Model (Iris)

A wedge shaped sector through a typical monocotyledon root, giving transverse and longitudinal sections. Longitudinal section of phloem and xylem tissues are shown. Supplied with key card.

Dimensions : 34*21.5*5 cm.

ESB51933





Dicot Root Model T.S.

The Molded Dicot Root Model, painted vibrantly and greatly magnified, is accompanied by a key card that highlights its key anatomical features. This 3D model vividly showcases the intricate inner anatomy and vasculature of a dicot root. Its sturdy construction offers an excellent resource for visually and kinaesthetically effective study of the structure and function of dicot roots.

Dimensions: 32.5x 25x 2.5 cm

ESB51930

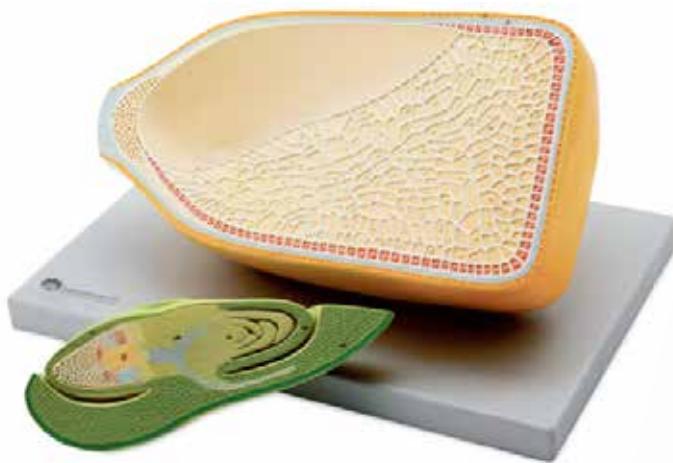


Monocot Root Model T.S.

Introducing the Large Monocot Root Model, offering an expansive 3D depiction of a monocot root. This model showcases meticulously hand-painted details, with each part labeled by number for easy identification using the included key card. Key labeled parts include Root Hair, Epiblema, Exodermis, Cortex-Parenchymatous, Inter-Cellular Space, Endodermis, Starch Grain, Pericycle, Protoxylem Vessel, Metaxylem Vessel, Conjunctive Tissue, Phloem Bundle, and Pith.

Dimensions: 32.5x 25x 2.5 cm

ESB51931



Corn Seed Model, 2 Parts

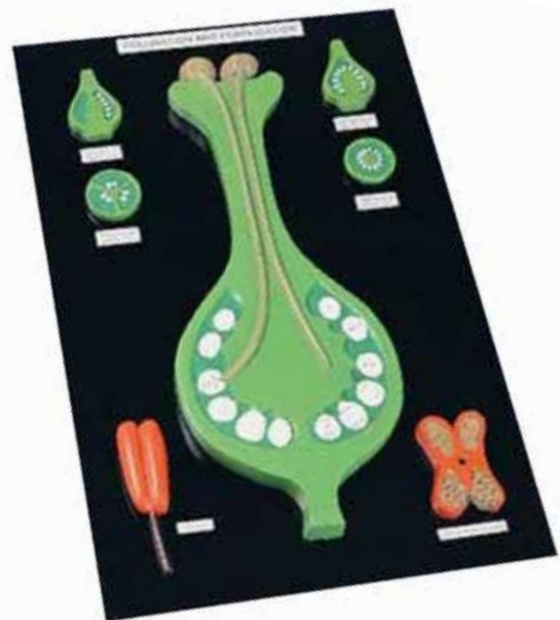
This item is composed of 9 different pieces showing the main stages of the mammal cell mitosis (prophase, metaphase, anaphase and telophase) at an enlargement of approx. 10000 times. During all stages you can observe the different characteristics of the cellular structures such as chromosomes, centrioles, spindle and nucleus. Every single piece is numbered to indicate the correct sequence of steps.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 42*17*10 cm

Weight : 1300 g

ESB51924



Pollination And Fertilisation Model

The primary model depicts a vertical section illustrating the stigma, style, and ovary, showcasing the progression of pollen tubes towards the ovules. Additionally, separate models are provided to display the anther, anther dehiscing, and various types of ovary in both transverse and longitudinal sections.

Dimensions : 50*33 cm

ESB51944





Flower Model, 10 Times Life Size

A greatly enlarged (10x) model to demonstrate the floral components and reproductive function of the flower. Each of the eight parts of the flower model represents one of the unique structural components such as the petals, sepals, stamens and pistil. Fertilisation is shown, with pollen grains on the stigma; one pollen tube is shown penetrating the micropyle. The anthers are sectioned and the ovary is dissected to show the female gametophyte. The model also depicts the scenario for double fertilisation. Mounted on a base and supplied with key card.

ESB51939



Hermaphrodite Dicot Flower Model

This three-piece model, enlarged to 14X life size, describes with great accuracy and detail the anatomy of a typical hermaphrodite dicotyledonous flower. Thanks to the cross-section, the anatomy of the internal structures, such as stamens, stigma, style and ovary with eggs can be easily studied.

External structures, including petals and sepals, are also well represented. The main structures are numbered and referenced on the accompanying manual.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 33*23*40cm

Weight : 515g

ESB51952



Dicot Flower Model

Dicot Flower model Representing a greatly enlarged, complete flower, made of non-breakable vinyl plastic model teaches the reproductive function of flowers, angiosperm pollination and fertilization. Three petals, four sepals and four stamens are detachable. Two anthers are sectioned open to expose pollen grains. The ovary is dissected to reveal the seven-celled female gametophyte. Pollination is demonstrated by pollen grains that have adhered to the stigma. One of them has generated a pollen tube that has penetrated the micropyle. Depicting the condition just prior to fertilization, the tube nucleus, closely followed by the two sperm cells, can be observed near the apex of the pollen tube.

Dimensions : 36*14*12cm ,

Weight : 500g

ESB51938



Dicot Flower Model 5 Times Life size

High pretty handwriting, enlarged about 5 times, shows all features of typical dicot flower(peach flower).

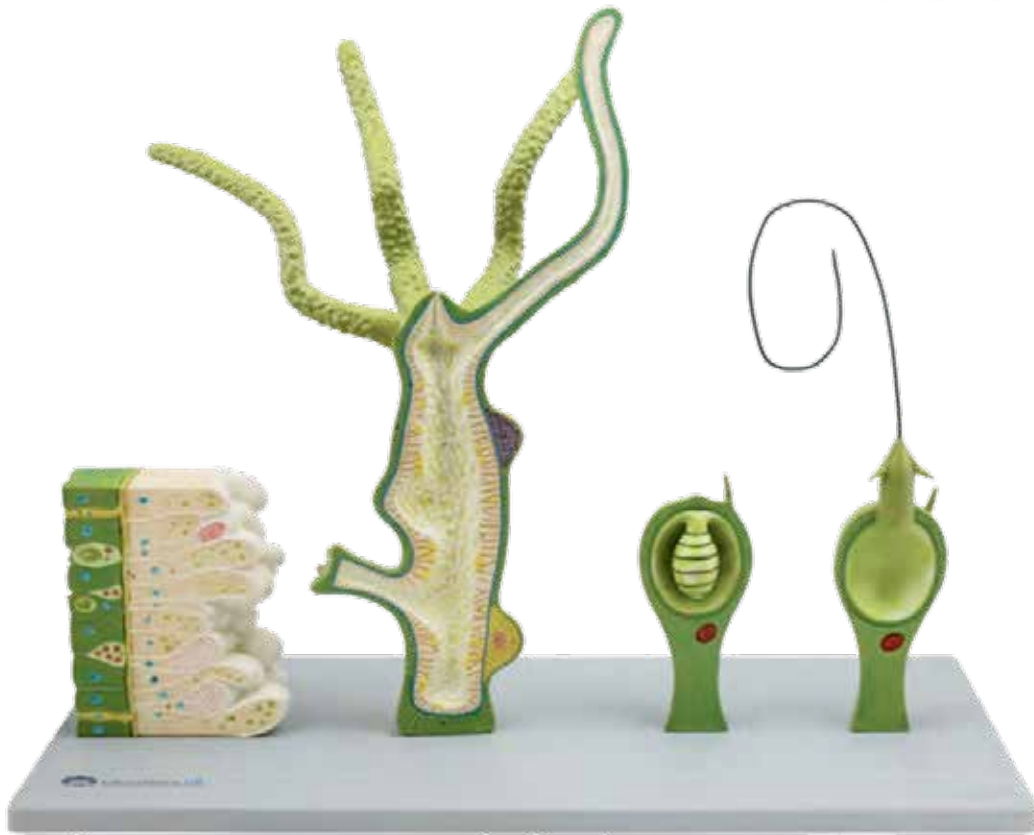
The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*26*16cm

Weight : 1660g

ESB51938/5X





Hydra Model, 4 parts

This 4-part model shows longitudinal and cross sectional views of the hydra, highlighting significant anatomical features, including the ectoderm, mesoglea, coelenteron, male and female egg cells, buds and mouth opening.

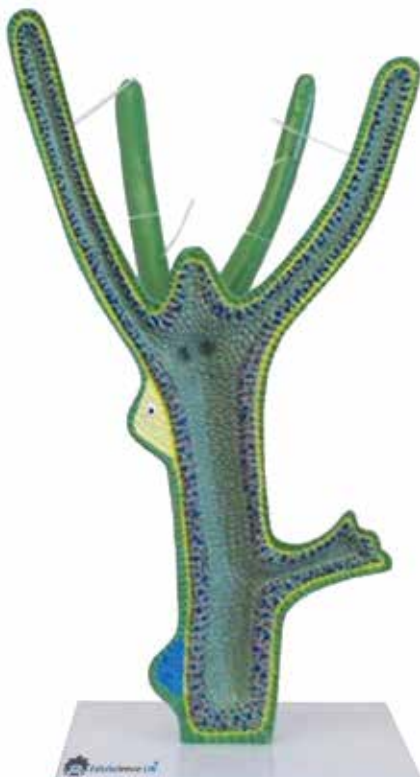
The cross sectional block model, about 250X life size, shows various cellular structures, including nematoblasts, epithelial cells, sensory cells, interstitial cells and the nerve network an additional block model shows the anatomy of a highly enlarged cnidoblast cell.

The model is securely mounted on a base , providing stability for educational or display purposes.

Dimensions : 70*30*58 cm

Weight : 2200 g

ESB51954



Hydra Model

A median longitudinal section of a green hydra, showing external and internal structure, budding, testis and ovary.

On base approx 56 cm high.Supplied with keycard.

ESB51940





Plant Cell Model

Plant Cell Model (3D- Dimension): The model is durable plastic, shows both microscopic & ultramicroscopic colored details : cell wall, plasma cytoplasm, nucleus, vacuoles, plastids, lysosomes, golgi apparatus, ribosomes, mitochondria, rough & smooth ER. Mounted vertically on a base. Catalogue or Hardcover key card of the numbered structures all labeled in Arabic & English printed nicely and pastes on the top surface of the base)

ESB51941



Plant Cell Model

This model, enlarged 20,000 times, shows the significant structures of a plant cell, including the wall, nucleus, vacuole, Golgi apparatus, mitochondria, chloroplast, chromoplast, leucoplast, endoplasmic reticulum. Mounted on board.

Dimensions : 42*30*10 cm,
Weight : 2100 g

ESB51942



Plant Cell Model

The two piece plant cell model shows the structures of a typical plant cell with cytoplasm and cell organelles, as viewed by an electron microscope. all important organelles of the plant cell are in raised relief and displayed in colour. Features included are:

Cell wall, Cell membrane, Nucleus, Smooth Endoplasmic Reticulum, Rough Endoplasmic Reticulum, Ribosome's, Chloroplasts, Mitochondria, Dictyosomes/Golgi apparatus,

The plant cell model is magnified 500,000 to 1,000,000 times.

Dimensions : 20*11.5*32 cm

ESB51943



Chloroplast Model

This model represents an important tool to study one of the most important organelles of the plant cell. The chloroplast, greatly enlarged, is cross and longitudinally sectioned to show in great detail the internal microscopical structure such as inner and outer membrane, granum, stroma, starch granules and osmiophile globule.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 40*26*20 cm

Weight : 2530 g

ESB51923



Plant Cancer

Now cancer can be investigated in the lab, not just discussed in your classroom. Students safely study the various aspects of cancer cell growth with this totally self-contained kit. (A fresh carrot will be required.) Students explore various aspects of cancerous cell growth and learn to explain the differences between a normal cell and a cancer cell, describe similarities and differences between animal and plant cancers, identify cancer cells, identify a plant cancer or gall, and research current theories on the causes of cancer. Students grow their own sunflower plants; then induce crown gall by inoculating plant tissue with *Agrobacterium tumefaciens* (reply card item ships upon request and only in Continental US) which is required for inducing the cancerous growth. Students then do a Koch's Postulates Experiment: Inducing Cancer in Carrot Tissue. Grades 9-12



ESB52046

Plant Cloning I (Introduction To)

Plant propagation by cloning is becoming increasingly important in food and flower production. Generating a plant by cloning its tissue is an exciting and challenging experience which teaches the importance of sterile laboratory methods. Students will germinate carrot seeds to provide plant material from which to establish a culture, use sterile technique to grow seedlings and establish a callus culture, and induce the development of multiple shoots (plantlets) from the callus tissue. The process takes approximately four months. No hood or incubator required. Includes an instruction manual, assessment questions, and a Power Point presentation with images of plant material at various stages of the experiment. Perishable reply card items ship separately upon request and only in the continental US. Grades 9-12



ESB52047

Blood Typing Simutype (RH)

Blood typing for Rh factor is a medically important procedure. Rh genetics can be of concern during pregnancy and blood transfusions. Learn why under certain circumstances when the mother is Rh negative and the embryo is Rh positive, the baby can be at risk of attack by the mother's immune system. By determining blood types and taking appropriate medical precautions, the incidence of Rh-induced haemolytic disease of the newborn (erythroblastosis fetalis) fatalities have been substantially reduced in the United States. This kit features the safety of simulated bloods and antisera and the convenience of self-adhesive Hema-Tags. Includes an enhanced instructor's manual with background information, reproducible student worksheets, and comprehensive answer keys. Contains 5mL of anti-Rh and 2mL of each blood sample type. Materials provided are sufficient for up to 50 tests. Meets national standards for grades 9-12.



ESB52148

Aids Simutest Kit

Students become biotech- technicians while using this AIDS test kit, running eight samples in a simulated ELISA to determine which patient(s) may have contracted the HIV virus. Kit includes simulated patient serums, conjugate, chromagen, and reusable pre-treated ELISA microtiter plates. The kit may be used many times; just add distilled water. The kit is totally safe for student use. It does not contain blood serum or infectious agents. Students experience the world of biotechnology while learning the biology of the HIV virus in a one hour lab investigation. Designed for six groups of four students. This kit is appropriate for college level coursework, college prep, or advanced biology courses. Grades 11-14.

ESB5215



Plant Cloning II

Plant propagation by cloning is common in flower production. Generating a plant by cloning its tissue is an exciting and challenging experience which teaches the importance of sterile laboratory methods. Using this kit, students will establish a shoot multiplication culture using an African violet as a model, use sterile technique to develop African violet cloned cultures and induce the development of multiple shoots (clones) from the leaf tissue. Resulting plantlets may be started in soil. The complete process takes approximately three months. No hood or incubator required. Includes an instruction manual and a Power Point presentation with images of plant material at various stages of the experiment. Perishable reply card items ship separately upon request and only in the continental US. Grades 9-12

ESB52048





Urinalysis

The analysis of urine is a valuable procedure for evaluating a person's health. Using simulated urine samples, students are introduced to biomedical urinalysis procedures similar to those utilized in medical laboratories to determine the general characteristics of urine, observe sediments found in urine, and test for glucose, albumin, pH, specific gravity, and lead. No real urine or human products are used in this kit. Required, but not included: a Bunsen burner, balance, microscope, lab glassware, urine hydrometers (optional), and a centrifuge (1500 rpm, optional). Designed for 24 students working in six groups of four. Grades 9-12

ESB52131

Genetics I

Students identify some of their own genetic traits, such as whether or not they are able to taste the bitterness of PTC or roll their tongues. Then they model homologous chromosomes to demonstrate how reproduction results in the inheritance of genetic variation. Punnett Squares are used to apply concepts of statistics and probability to predict the distribution and variation of expressed traits in examples from humans, plants, and animals. Students use a randomized selection process to model the observed occurrence of allele frequency to compare to statistically expected outcomes of crosses. Phenotypes, genotypes, monohybrid and dihybrid crosses, test crosses, dominance, incomplete dominance, codominance, and recessives are discussed. Includes worksheets, data sheets, and complete answer keys. Designed for 24 students working in six groups of four. Grades 6-10



ESB52132

Genetics II

This hands-on approach to genetics gives students an opportunity to study the inheritance of multiple alleles, examine karyotypes, and study pedigrees. Students observe the antigen-antibody reaction for ABO blood groups using simulated blood. Then, they identify the blood types of four people and apply the concept of codominance to determine possible genotypes and phenotypes of future generations. Students learn how nondisjunction can cause autosomal and sex chromosome disorders during meiosis while studying karyotypes. They learn to construct pedigree charts and use them to show how genotypes of genetic traits may be followed through a number of generations. Then, students create pedigrees for tongue rolling and ability of their family to taste bitter with PTC paper. Includes all materials for ABO blood typing and karyotyping, PTC paper, worksheets, data sheets, and complete answer keys. Designed for 24 students working in groups

of four. Grades 6-10

Introduction To Chromosomes Kit

EduSciences Introduction to Chromosomes Kit is designed for advanced biology students who are interested in the microscopic examination of chromosomes from peripheral blood leukocytes. The kit uses freshly drawn blood cells and a micro technique which can be adapted for chromosome studies from cells of bone marrow or other tissues. Reply card items include: chromosome media, arresting fluid, rinsing solution, and Hank's Balanced Salt Solution. Required, but not included: centrifuge (800 rpm), oil immersion microscope, water bath or incubator (37°C), alcohol or Bunsen burner, staining jars, xylene, glacial acetic acid, and methanol. Designed for 24 students working in six groups of four. Grades 10-14

ESB52134



ESB52133



Biotechnology: Electrophoresis

Finally, a safer, much more affordable way to do gel electrophoresis in the classroom! Now anyone can learn the essentials of this classic molecular biology technique which plays such a central role in biotechnology research. Students isolate DNA samples from live organisms and run the samples on agarose gels they pour themselves. Then they stain the DNA with methylene blue to visualize their samples. A wonderful classroom tested option for those who do not own pricey biotechnology equipment. Kit includes all materials, supplies, and instructions for isolating DNA, making running buffers, creating tracking dyes, pouring gels, and running and staining DNA...including the power sources. Materials and supplies for 100s of DNA sample isolations and making up to 50 agarose gels. Designed with six gel running stations. Grades 12-8

ESB52135





DNA Model Kit (Without Paint)

Students construct this DNA model from six different molecular pieces, collectively depicting sixteen nucleotide pairs worth of DNA (8 AT and 8 GC pairs). The base pairs and the sugar and phosphate units are each manufactured as single plastic units. Because there are only nine molecular parts per nucleotide pair, which snap together by means of a pop-it bead mechanism, the model can be easily assembled. The model may be disassembled and reassembled like a puzzle, enabling extended use. The model is unpainted and individual molecules may be painted by students either prior to or after assembly. Model does not include paint or paint brushes. (EduScience kit 9-102 includes paint.) A laboratory exercise and problem set accompany the model. After completing the building exercise and problem set, students will have a better understanding of the double helical structure and the function and properties of DNA. Contains instruction manual, 144 plastic DNA building pieces, rod, spacers, and wooden base. Building and painting project ideal for six students., Grades 7-14

ESB52136



Blood Typing Kit (With Red Blood Cells)

This kit provides both the red blood cells and the antisera for demonstrating ABO blood typing agglutination reactions. Students will use the red blood cells provided, eliminating the need to draw blood samples. Includes instructions for two blood typing methods, and both slide and test tube blood typing are performed, compared, and contrasted. Includes enhanced instructor's manual with student worksheets. This kit is drop ship only, and the blood cells included have a life expectancy of at least 20 days after arrival, but should be kept under refrigeration for best shelf life. Allow two weeks for delivery. Materials provided are sufficient for up to 36 students. Meets national standards for Grades 9-12. Also appropriate for college level. Must be Drop shipped from supplier.

ESB52138



Dna Model Kit (With Paint)

Students construct this DNA model from six different molecular pieces, collectively depicting sixteen nucleotide pairs worth of DNA (8 AT and 8 GC pairs). The base pairs and the sugar and phosphate units are each manufactured as single plastic units. Because there are only nine molecular parts per nucleotide pair, which snap together by means of a pop-it bead mechanism, the model can be easily assembled. The model may be disassembled and reassembled like a puzzle, enabling extended use. The model is unpainted and individual molecules may be painted by students either prior to or after assembly. Model with paint includes six paint colours, paint thinner, and six brushes. A laboratory exercise and problem set accompany the model. After completing the building exercise and problem set, students will have a better understanding of the double helical structure and the function and properties of DNA. Contains instruction manual, 144 plastic DNA building pieces, rod, spacers, and wooden base. Building and painting project ideal for six students. Grades 7-14

ESB52137



Blood Typing Kit (ABO)

Provide an exciting personal experience? this kit allows students to determine their own blood type, while learning the basics of ABO blood typing. Includes the antisera for demonstrating real ABO blood typing agglutination reactions. The specially designed Hema-Tag on which the blood typing identification is performed is self-adhesive and can be affixed in a student notebook for a permanent record. Includes enhanced instructor's manual with background material and student worksheets complete with answer keys. Antisera are perishable. Refrigerate to prolong shelf life. Materials provided are sufficient for up to 50 tests. Meets national standards for Grades 9-12. Also appropriate for college level.

ESB52139





Blood Typing Kit (ABO & RH)

Provide an exciting personal experience? this kit allows students to determine their own blood type, while learning the basics of ABO and Rh blood typing. Includes the antisera for demonstrating real ABO and Rh blood typing agglutination reactions. The specially designed Hema-Tags on which the blood typing identification is performed are self-adhesive and can be affixed in a student notebook for a permanent record. Includes an enhanced instructor's manual with background information, reproducible student worksheets, and complete answer keys. Antisera are perishable. Refrigerate to prolong shelf life. Materials provided are sufficient for up to 50 tests. Meets national standards for Grades 9-12. Also appropriate for college use.

ESB52140

Anti-A, Anti-B Serum Set

These highly specific monoclonal antisera are tested for Hbs Ag and HTLV-III (AIDS). Standard laboratory practices should be used, however, and all biological products should be treated as if capable of transmitting disease. Supplied in dropper vials of 5 mL for approximately 36 tests. Product is perishable and requires special shipping. Refrigerate for prolonged shelf life. Grades 9-14.

ESB52143



Blood Typing Kit (ABO & RH Lyophilized)

Provide an exciting personal experience, This kit allows students to determine their own blood type, while learning the basics of ABO and Rh blood typing. Includes

Lyophilized antisera for demonstrating real ABO and Rh blood typing agglutination reactions. The specially designed Hema-Tags? on which the blood typing identification is performed are self-adhesive and can be affixed in a student notebook for a permanent record. Includes an enhanced instructor's manual with background material, student worksheets, and complete answer keys. Lyophilized antisera provides the product with an extremely long and stable shelf life. Refrigerate antisera after reconstituting to prolong shelf life. Materials provided are sufficient for up to 50 tests. Meets national standards for Grades 9-12. Also appropriate for college use.

ESB52141

ABO/RH Synthetic Blood Typing Kit

The ability to type blood is imperative in medicine and criminology. In this kit students test four synthetic blood samples to identify their ABO and Rh blood types. For 30 students.

ESB52162

ABO/RH Synthetic Blood Typing Refill Kit

The ability to type blood is imperative in medicine and criminology. In this kit students test four synthetic blood samples to identify their ABO and Rh blood types. For 30 students.

ESB52163

Blood Typing Kit (Saliva)

Provide a truly unique and exciting personal experience this kit allows students to determine their own blood type without drawing blood. Students use their own saliva, from which secretors (80% of students) will be able to determine their ABO blood type. This kit provides real antisera for demonstrating true ABO blood typing agglutination reactions. Ideal for students in advanced biology, physiology, or biochemistry. Includes an enhanced instructor's manual with background information, reproducible student worksheets, and complete answer keys. Antisera and Blood Cells are perishable. Refrigeration prolongs shelf life. Reply card included for blood cells and lectin; materials must ship 2nd day air on ice in summer months. Reply card items are only shipped within the continental United States. Cells must be refrigerated and used within 20 days. Materials provided are sufficient for up to 50 tests. Requires a centrifuge or prolonged settling. Meets national standards for Grades 9-12. Also appropriate for college level.

ESB52142





Anti - RH Serum

This highly specific monoclonal antiserum to Rh factor is tested for HbsAg and HTLV-III (AIDS). Standard laboratory practices should be used, however, and all biological Products should be treated as if capable of transmitting disease. Supplied in dropper vials of 5 mL for approximately 36 tests. Product is perishable and requires special shipping. Refrigerate to prolong shelf life. Grades 9-14

ESB52144

Nucleic Acids Kit

This nucleic acids kit provides students with the opportunity to demonstrate differences between DNA and RNA in terms of chemical composition and internucleotide bonding. Experiments include: (1) reacting DNA, RNA, and nucleosides in the Bial's test for penthouses and the Dische diphenylamine test for deoxyribose; (2) the acid and alkaline hydrolysis of DNA and RNA. Required, but not included: fume hood, concentrated hydrochloric acid, concentrated sulfuric acid, and glacial acetic acid. Designed for 24 students working in six groups of four. Grades 10-14

ESB52151



Anti - A, Anti - B Lyophilized Serum Set

Lyophilized sera allow prolonged, stable storage and shelf life. Each set reconstitutes to 5 ml Anti-A serum and 5 ml Anti-B serum with addition of sterile or distilled water. Sera are tested for HbsAg and HTLV-III (AIDS), however, standard laboratory practices should be used when handling and all biological products should be treated as if capable of transmitting disease. Refrigerate after reconstituting to extend shelf life.

ESB52145

Anti - RH Lyophilized Serum

Lyophilized sera allow prolonged, stable storage and shelf life. Each vial reconstitutes to 5 ml Anti-Rh serum with addition of sterile or distilled water. Sera are tested for Hbs Ag and HTLV-III (AIDS), however, standard laboratory practices should be used when handling and all biological products should be treated as if capable of transmitting disease. Refrigerate after reconstituting to extend shelf life. Grades 9-14

ESB52146



Simutype (ABO)

These four orphans are trying to find their blood brothers or sisters from whom they were separated while very young. Is it possible that they are related? Learn the genetics, immunology, and medical implications of blood typing in the context of this fun and totally safe simulated blood typing activity. Includes complete 16 page instructor's manual, 72 reusable glass microscope slides, 50 Hema-tags for adhering results to lab books, mixing sticks, and 15 ml bottles simulated antisera and blood regents. Meets national standards for grades 9-12.

ESB52147





Electrophoresis Apparatus

is a durable and seamless injection- moulded horizontal agarose electrophoresis unit designed for ease of use and safety. It balances hands-on student participation with economy. Included with the unit are a six-tooth comb and a double 8/10-tooth comb. The 7 cm x 10 cm gel casting tray has an embossing gel ruler and includes rubber end caps which seal the tray. Both the electrophoresis chamber and the gel casting trays are UV transparent.

ESB52155

Electrophoresis Power Supply

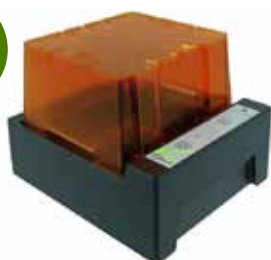
Our most popular electrophoresis power supply and runs gels quickly - in only 20-30 minutes at 150 V!

Features:

- Max Voltage: 150 Volts
- Voltage Steps: 75 or 150 Volts
- Max Current: 300 Milliamps
- Output Type: Constant Voltage
- Lead Inputs: 2 Sets, Recessed, Color Coded
- Fuse: 1.0 Amp 250V Glass Fuse



ESB52156



Electrophoresis System

- Ultra compact system
- 360° real-time and high-resolution vision
- Dimensions: 150 x 145 x 100 mm
- Agarose gel dimension: 61 x 42 mm
- Agarose gel volume: 15 mL
- Buffer volume: 150 mL
- LED trans illuminator 470 nm
- 2 lighting intensities
- LED optimal level indicator
- Equipped cover with safety cut-off
- Cover with safety circuit cut-off
- Power block compatible 240 - 100V AC

ESB52164

Dual Gel Electrophoresis Complete Kit

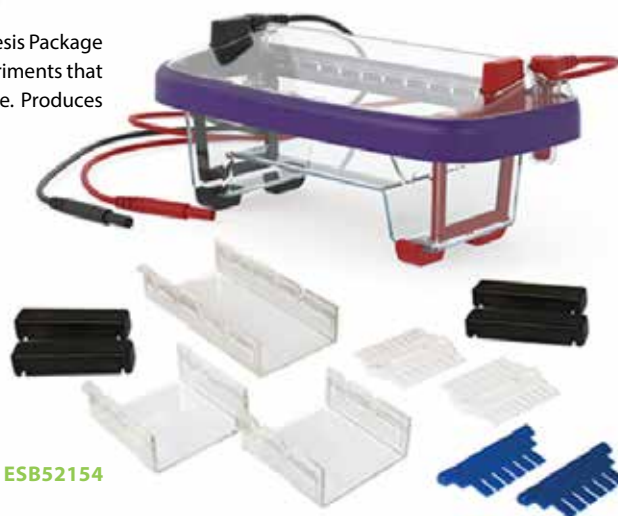
The latest in versatile electrophoresis design! Our newly Complete™ Electrophoresis Package supports up to two groups of students in two standard length gel trays for experiments that require less separation, or one long gel tray for experiments that require more. Produces excellent results in 30-40 minutes and includes a lifetime warranty.

New Features:

- Sleek New Design Speeds Electrophoresis
- Versatile Electrophoresis Accessories Included
- Contoured Lid for Enhanced Gel Visualization
- Large Color Coded Push Tabs for Easy Lid Insertion & Removal
- Pour Spout for Buffer Disposal
- Improved Ventilation Reduces Lid Condensation
- User Replaceable Electrodes Electrophoresis

Package Includes:

- (2) 7 x 7 cm Gel Trays
- (1) 7 x 14 cm Gel Tray
- b(2) 6 Tooth Combs
- b(2) 10/8 Tooth Combs
- (4) Rubber End Caps



ESB52154



Micro Pipette

Robust, accurate, easy to use, color coded, fun & cost effective micropipettes which use standard micropipette tips. No need to calibrate and impossible to measure the wrong volume! , Fixed Volume 5 or 10 or 20 or 24 or 30 µl (please select your suitable size)

ESB52157

Tallquist Haemoglobin Scale

The Tallquist Haemoglobin scale allows a quick assessment of a patient's haemoglobin levels. Allow blood to absorb into one of the test papers and compare the blood to the Colour scale to determine the concentration of haemoglobin in blood under normal and anaemic conditions. Includes a color chart and 150 test papers. Grades 9-14



ESB52149



Orbit Preview DNA Model

A great whole-class DNA project.

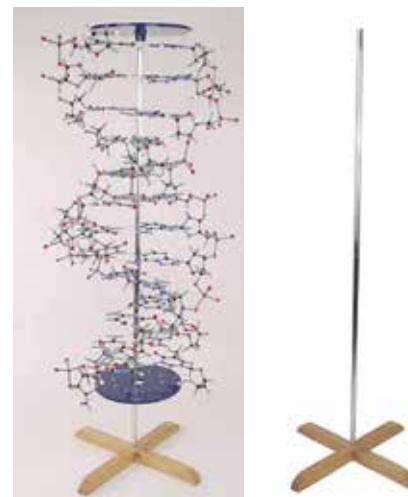
This detailed and large-scale 3d model helps pupils to understand the chemistry and structure of DNA.

Building the double helix model engages and educates students. Pupils work together to make up the sub assemblies – the Thymine-Adenine and Cytosine-Guanine base pairs, sugar rings and phosphate groups – which are joined together to make an impressive display and teaching resource. 12 base pairs show more than one turn of the double helix and the major and minor grooves of the protein lysozyme. Each atom is shown and coloured bonds indicate covalent or hydrogen bonding. The finished model is 85cm high and 40cm wide and can set on a suitable stand (eg 90cm laboratory stand) or hung from a hook.

The kit contains 750 atoms and 850 bonding straws from the Orbit molecular modelling system, a set of wooden plates for hanging the model plus assembly instructions and a worksheet examining the structure of DNA and process of transcription.

Part and fully assembled versions are also available. Please note the kit version comes with unpainted wooden plates and does not include a display stand and this can be purchased separately

ESB52152



Stand For Orbit Preview DNA Model

A purpose-built display stand for the Orbit Preview DNA model with a wooden base and metal central support. The stand comes supplied in three sections for easy self-assembly and provides an elegant solution for displaying the completed model.

ESB52153



DNA & RNA Kit

The small DNA-RNA model shows the double helix and how the molecules split at the centre of the base pairs.

The DNA-RNA Model includes:

- 30 coloured tubes (Guanine red, Cytosine green, Thymine blue, Adenine gray, Uracil white)
- 12 white two prong centre, which represents the hydrogen bond between the base pairs
- 28 black trigonal atom centres which represent sugar
- 25 red two prong atom centres, which represent phosphate groups
- 50 yellow tubes that link the phosphate groups to the sugar rings
- Wooden base with support rod are included in the kit, Height 50 cm.

ESB52158



Mini DNA 22 Layers

These Mini DNA Molecular Kits provide an easy to understand introduction to DNA structure. Comprises abstract shaped, colour coded parts to represent the nitrogenous bases - Pentagonal sugar and pyramidal phosphate component parts present in the DNA double helix.

Each component is designed so that it can only be attached in its correct position, e.g. Thymine will only pair Adenine. Can be constructed on the stand or without the separators provided. The model can also be uncoiled and 'unzipped' to produce two strands.

Scale 1cm = 2 angstroms. Each kit contains all the necessary components, including stand, support rod and easy to follow instructions. Available as an 12 layer or 22 layer model kit.

ESB52160



Mini DNA 12 Layers

These Mini DNA Molecular Kits provide an easy to understand introduction to DNA structure. Comprises abstract shaped, colour coded parts to represent the nitrogenous bases - Pentagonal sugar and pyramidal phosphate component parts present in the DNA double helix.

Each component is designed so that it can only be attached in its correct position, e.g. Thymine will only pair Adenine. Can be constructed on the stand or without the separators provided. The model can also be uncoiled and 'unzipped' to produce two strands.

Scale 1cm = 2 angstroms. Each kit contains all the necessary components, including stand, support rod and easy to follow instructions. Available as an 12 layer or 22 layer model kit.

ESB52161





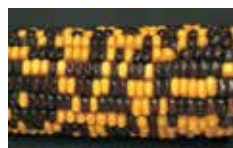
ESB52194



ESB52195



ESB52198



ESB52193



ESB52196



ESB52197

ESB52189 Soy-bean Seeds

Genetic Corn Ears

ESB52190 Purple starchy

ESB52191 Yellow starchy

ESB52192 Yellow sweet

Segregating Corn Ears

ESB52193 R Colour Alleles 1:1

ESB52194 Wax Endosperm Alleles 3:1

ESB52195 Su Endosperm Alleles 3:1

ESB52196 R and Su Alleles 1:1:1:1

ESB52197 R and Su Alleles 9:3:3:1

ESB52198 R Colour Alleles 3:1

ESB52199 Mendelian Genetics of Corn Kit

"Green: Yellow Green:

Yellow (1:2:1), F2 seeds giving a 1:2:1, seedling ratio, showing incomplete dominance. These seeds will produce, seedlings in which the heterozygous plants show a clear phenotypic difference from homozygous green and yellow. pk/100"

Corn ears are an excellent choice for studying Mendelian inheritance. The crosses have been done for you and a selection of F2 corn ears are available. There are numerous contrasting phenotypes expressed in corn seed. These phenotypes are easy to recognize and score. The corn ears are lacquer treated to improve appearance and increase their durability.

The corn ears are used to demonstrate several patterns of Mendelian genetics. Despatched with an explanatory guide.

Purple:Yellow. The result of test crossing the F1 hybrid with the recessive parent (R/r x r/r)

Starchy : Waxy. Demonstrates segregation of the recessive endosperm character, waxy. Iodine solution is used to distinguish the phenotypes.

Starchy : Sweet. An F2 ear from a cross between a starchy (Su/Su) and a sweet (su/su) parent. The sweet seeds are wrinkled and the starchy seeds are smooth.

Purple Starchy:Purple

Sweet:Yellow Starchy:Yellow

Sweet. The result of test crossing the F1 hybrid with the recessive parent. (R/r Su/su x r/r su/su)

For studying dihybrid inheritance. This corn ear allows you to show students organisms that differ their inheritance patterns in 2 traits: Purple Starchy: Purple Sweet: Yellow Starchy: Yellow Sweet. An F2 ear resulting from a P1 generation having the genotypes. (R/R Su/Su and r/r su/su)

Shows the relationship between genotypes and phenotypes. Perfect for demonstrations. What's the fastest way to explain the relationship between genotypes and phenotypes? Use this one ear of corn. Purple: Yellow. An F2 ear resulting from a P1 generation having the genotypes R/R and r/r.

"Kit contains:

8 Segregating ears (Purple : Yellow) 8 Corn Parental Cross Cards A 8 Segregating ears (Starchy: Sweet) 16 Transparency markers 8 Segregating ears (Purple: Yellow :Starchy:Sweet) 8 Corn parental cross cards B Storage Box, Teachers manual For 32 students working in groups of 4. Topics include segregation and the independent assortment of alleles, dominance, genotype and phenotype. Expected ratios, mono-hybrid and dihybrid crosses and chi-square."



Seeds & Accessories

ESB52209	Barley Seeds	250g
ESB52210	Broad Beans	Quick growing , 250g
ESB52211	Clover Seeds	25g
ESB52212	Grass Seeds	25g
ESB52213	Sunflower Seeds	250g
ESB52214	Cress Seeds	100g
ESB52215	Potting Compost	2kg
ESB52216	Peat seeds	2kg
ESB52217	Lettuce Seeds	Grand rapids light sensitive Approx 10,000 per pack ,10g
ESB52218	Mustard Seeds	White , 250g
ESB52219	Lettuce Seeds	Approx 10,000 per pack ,10g
ESB52220	Oat Seeds	250g
ESB52221	Tomato Seeds	1g
ESB52222	Mung Beans seeds	250g
ESB52223	Pea Seeds	250g
ESB52224	Wheat Seeds	250g
ESB52225	Wild Type Brassica Seeds	pack of 200
ESB52226	Radish Seeds	50g



ESB52255

Liquid Fertiliser 1ltr**Plant Grow Lighting System Propagation Lighting**

The PL4 propagation light has a 2 metre lead and hanging locations with rope supplied. The unit comes with four double 55 watt white lights for 'fast plant' growing and four Sylvania 55 watt colour 86 daylight bulbs for a maximum blue output. These bulbs are useful when growing a multitude of seeds/plants. The unit measures 60cmx32cmx10cm.

ESB52256

ESB52257

ESB52258

Replacement bulbs for lighting unit White**Replacement bulbs for lighting unit Blue/Colour**



Osmosis & Diffusion Kit

Osmosis and diffusion are essential concepts in understanding how cells survive. The exchange between water and solutes is visually observed in this three part lab that takes no more than two class periods to complete. Students will utilize starch and glucose solutions with dialysis tubing to model the cell membrane and observe the processes of osmosis & diffusion. This laboratory activity is ideal for high school biology classes of all levels. Designed for 24 students working in six groups of four. Grades 9-12

ESB52287



Coliform Test Kit

A dramatic way to demonstrate the presence of coliform in water samples to students with a limited laboratory background. Eliminates the need for expensive laboratory equipment for teaching bacteriology, and includes all necessary materials alleviating extensive lab preparation. Great for leading into discussions about water pollution or environmental contamination. May be used in a multitude of science applications. Kit includes instructor's manual with background information, and enough materials for 24 students working individually, in pairs, or in groups. Includes 25 tubes for testing water for presence of *Escherichia coli* indicative of the presence of animal waste. Requires incubator (37C). Meets national standards for Grades 8-12.

ESB52288



Mechanisms Of Herbicides

This exercise is designed to demonstrate the effectiveness of different categories of chemical herbicides. Students transplant grasses and weeds into flats or pots and investigate how and why different plants are killed by different chemical herbicides. A simultaneous microbiological proof with inoculated agar plates is run to reinforce the results, further categorize herbicides, and determine possible effects of the herbicides on soil micro-organisms. Each group will choose two natural products and design a simple experiment to compare chemical vs. natural weed killers. A round table discussion including experimental designs, results, comparisons, and possible environmental impact culminates the exercise. Requires five class periods, plus research time. Required, but not included: heat source, flower pots or nursery flats, grass and weeds for transplanting. Designed for 24 students working in four groups of six. Grades 9-14

ESB52289



Introduction Microbiology Kit

Introductory Microbiology Kit

This kit is designed to give an introduction to Microbiology Studies. A workbook is included. The kit allows for 10 groups of students working individually or in groups.

Activities included are: Making broth cultures, effects of temperature, Making plate cultures, Antibiotics and their effects on cultures, Staining, Pasteurisation, Living bacteria study, Study of fungi, Life cycle of *Mucor* and many other activities and applications. The kit has been developed to give a thorough understanding of all the practical Activities that would be conducted in a 'real life' microbiology laboratory thus introducing students to the importance of this critical field of study.

ESB52290



Cultures

Our cultures are supplied on agar slopes in screw top vials. Each one is identified as gram + or -.

ESB52305	<i>Agrobacterium tumefaciens</i> - Nutrient Agar	ESB52317	" <i>Streptococcus lactis</i> + <i>Lactococcus lactus</i> . G.Y.L.A"
ESB52306	<i>Bacillus megaterium</i> + Nutrient Agar	ESB52318	<i>Aspergillus oryzae</i> Potato dextrose agar
ESB52307	<i>Bacillus stearothermophilus</i> + Nutrient Agar	ESB52319	<i>Fusarium solani</i> Potato dextrose agar
ESB52308	<i>Bacillus subtilis</i> + Nutrient Agar	ESB52320	<i>Mucor hiemalis</i> + Ve Strain Malt extract agar
ESB52309	<i>Erwinia carotovora</i> - Nutrient Agar	ESB52321	<i>Penicillium chrysogenum</i> Malt extract agar
ESB52310	<i>Escherichia coli</i> K 12 Strain - Nutrient Agar	ESB52322	<i>Penicillium expansum</i> Malt extract agar
ESB52311	<i>Escherichia coli</i> B Strain - Nutrient Agar. Susceptible to T4 Bacteriophage	ESB52323	<i>Penicillium roqueforti</i> Malt extract agar
ESB52312	<i>Lactobacillus bulgaricus</i> + G.Y.L.A	ESB52324	<i>Rhizopus stolonifer</i> Potato dextrose agar
ESB52313	<i>Lactobacillus casei</i> + G.Y.L.A	ESB52325	<i>Saccharomyces cerevisiae</i> Normal, diploid strain. Malt extract agar
ESB52314	<i>Micrococcus luteus</i> + Nutrient Agar	ESB52326	<i>Sordaria fimicola</i> Black Spored <i>Sordaria</i> agar
ESB52315	" <i>Pseudomonas fluorescens</i> - Nutrient Agar"	ESB52327	<i>Sordaria fimicola</i> White Spored <i>Sordaria</i> agar
ESB52316	<i>Staphylococcus albus</i> + Nutrient Agar		



Counter

Hand held mechanical counter. Single lever action counts 0 to 9,999.

ESB52344



Inoculating Loop St. Steel

Nichrome wire with 2mm diameter loop formed at one end. For use with the Inoculating Loop Holder. Length: 50mm. Pack of 5.

ESB52341



Inoculating Loop Holder

Metal handles with chuck to take inoculating wires and loops, lockable by a screw collar. Length: 150mm. Pack of 5.

ESB52342



Inoculating Loop Disposable

10µl loop at one end with a needle for stab culture or picking off colonies at the other. Sterile. Pack of 20.

ESB52343





Colony Counter

Four digital displays

4 digit display offers convenience of showing the present and previous three count values.

Multi-counting average : can make average count from multiple counting.

Exclusive BACK button : The BACK button offers the convenience of deducting data when over counting. Suitable for Petri-dishes in various diameters : adjustable dish holder can accept most Petri-dishes in a wide range of diameters from 90 to 150 mm or 60 mm.

Pressure sensor design : Pressure sensor design can allow user to operate with any marking pens. No worry about sample spoiled or contaminated.

ESB52345

Colony Counter With Software

Four digital displays : 4 digit display offers convenience of showing the present and previous three count values.

Multi-counting average : can make average count from multiple counting.

Exclusive BACK button : The BACK button offers the convenience of deducting data when over counting.

Suitable for Petri-dishes in various diameters : adjustable dish holder can accept most Petri-dishes in a wide range of diameters from 90 to 150 mm or 60 mm.

Pressure sensor design : Pressure sensor design can allow user to operate with any marking pens. No worry about sample spoiled or contaminated.

ESB52346

Colony Counter Marking Pen

Marking pen for colony counter

ESB52347

Colony Counter Background Plate

Background plate for colony counting

ESB52348



Nichrome Wire Inoculating Loop

Pack of 5

ESB52352



Gram Stain Kit

Gram Stain Kit is for qualitative procedures to differentiate gram-positive from gram-negative micro-organism.

Include 4 x 250 mL bottles : Crystal Violet; Decolonize; Iodine; Safranin

ESB52351



Bacteria Spreader

Stainless steel rod bent to facilitate spreading bacterial dispersions evenly over an agar plate

ESB52354





Glass Vials

30ml tubular glass vial with fitted polypropylene cap
pack of 30

ESB52355



Petri Dishes

9 cm plastic triple vent pack of 20

ESB52356

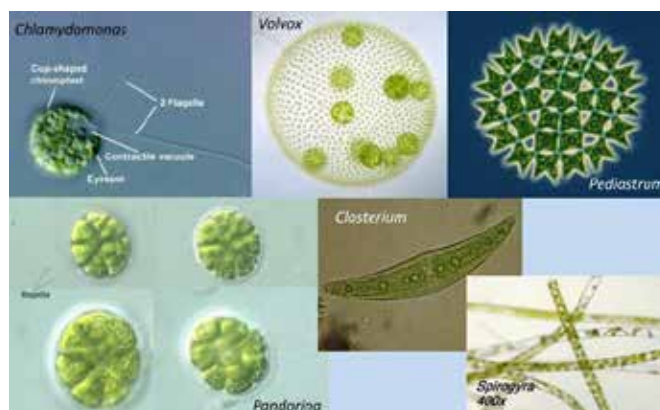
- ESB52404 Anti Human Ig A Serum Two millilitres
- ESB52405 Antibiotic Assay Discs - Box of 100 Pack of one hundred
- ESB52406 Antibiotic Assay Discs - Box of 1000 Pack of one thousand
- ESB52407 Penicillin G Sensitivity Discs - 1.5 units, Pack of 250
- ESB52408 Penicillin G Sensitivity Discs - 1.5 units, Pack of 50 Pack of fifty
- ESB52409 Penicillin G Sensitivity Discs - 10 units, Pack of 250
- ESB52410 Penicillin G Sensitivity Discs - 10 units, Pack of 50 Pack of fifty
- ESB52411 Penicillin G Sensitivity Discs - 5 units, Pack of 250
- ESB52412 Penicillin G Sensitivity Discs - 5 units, Pack of 50 Pack of fifty



Living Culture

- ESB52463 Paramecium caudatum
- ESB52464 Amoeba
- ESB52465 Aquaspirillum serpens
- ESB52466 Bacillus megaterium
- ESB52467 - Bacillus subtilis
- ESB52468 Chlamydomonas pulsatilla
- ESB52469 Chlorella Medium Millilitre
- ESB52470 Chlorella pyrenoidosa
- ESB52471 Escherichia B strain
- ESB52472 Escherichia coli K12 strain
- ESB52473 Euglena spirogyra
- ESB52474 Immunodiffusion (Buffered Agar) Medium
- ESB52475 L shaped spreaders Pack of twenty five

- ESB52476 Lactobacillus casei
- ESB52477 Pseudomonas fluorescens
- ESB52478 Rhizobium leguminarosum
- ESB52479 Spyrogira varians
- ESB52480 Staphylococcus epidermidis
- ESB52481 Streptococcus Faecalis
- ESB52482 Streptomycin Sensitivity Discs - 25g, Pack of 250
- ESB52483 Streptomycin Sensitivity Discs - 25g, Pack of 50 Pack
- ESB52484 Vibrio natriegens



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Microscope Biological Monocular HM-1

H-1 Series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life. It is also very comfortable for observation. These microscopes are widely used in educational, academic, and agricultural & study field. H-1 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

Monocular Head, Inclined at 30°, 360° Rotatable

Wide Field Eyepiece WE 1 OX/1R

Achromatic Objective 4X, 10X, 40X, 100X

Quadruple Nose-piece

Double Layers Mechanical Stage 125 X125min/60x40min

NA 1.25 Abbé Condenser with Iris Diaphragm

Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 14mm

1W LED Illumination, Brightness Adjustment

Blue Filter / Green Filter / Yellow Filter

ESB52672

Microscope Student Monocular HM-Basic

HM-Basic is our most popular elementary student microscopes!

This microscope is slightly smaller in size for young scientists without sacrificing high quality glass optics. The student elementary microscope includes Up and Down LED illumination, rugged metal components and has been built with student proofing features to eliminate damage to microscope and loss of parts.

Monocular

Head, Inclined at 45°

Wide Field Eyepiece WF10XJ16

Wide Field Eyepiece WF25

Achromatic Objective : 4X, 10X, 40X

Triple Nose-piece

Plain Stage with Slide Clip 95X95mm

NA 0.65 Condenser with Iris Diaphragm

Coaxial Coarse and fine adjustment

Up and Down LED II

Illumination, Brightness Adjustment for down illumination



ESB52673



Microscope Monocular HM-2

HM-2 microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life. It is also very comfortable for observation. These microscopes are widely used in educational, academic, and agricultural & study field. These microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department-

Viewing Head: Monocular Head

Eyepiece : Wide Field Eyepiece WF10X/18 2

Objective : Achromatic Objective 4X, 10X, 40X

Nose-piece : Quadruple Nose-piece

Stage : Double Layers Mechanical Stage 132X142min/75x40mm

Condense r: NA 1.20 Abbé Condenser with Iris Diaphragm and filter

Focusing System Coaxial Coarse and Fine Adjustment, Fine Division 0.004mm, Coarse Stroke, 32.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm

Illumination : S-LED Illumination, Brightness Adjustment

ESB52674



Microscope Monocular HM-3

HM-3 microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life. It is also very comfortable for observation. These microscopes are widely used in educational, academic, and agricultural & study field. These microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department-

Viewing Head: Monocular Head

Eye-piece: Wide Field Eye-piece WF10X/18 2

Objective : Achromatic Objective 4X, 10X, 40X; Achromatic Objective 100X

Nose-piece : Quadruple Nose-piece

Stage :Double Layers Mechanical Stage 132X142mm/75x40mm

Condenser : NA 1.20 Abbé Condenser with Iris Diaphragm and filter

Focusing System Coaxial Coarse and Fine Adjustment, Fine Division 0.004mm, Coarse Stroke,

32.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm

Illumination : S-LED Illumination, Brightness Adjustment

ESB52675



Microscope Monocular Advance

Viewing head: Monocular Head

Eye-piece : 2x Wide Field Eye-piece WF 10X/18

Objective : Achromatic Objective 4X, 10X, 40X, 100X

Nose-piece : Quadruple Nose-piece

Stage : double Layers Mechanical Stage 140X140mm/75x50mm

Condenser : NA 1.25 Abbé Condenser with his Diaphragm

Focusing System : Coaxial Coarse and Fine Adjustment. Fine Division 0.002mm, Coarse Stroke

37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm

Illumination : Single LED Illumination, Brightness Adjustment

Filter: Blue Filter, Green Filter

ESB52676



Microscope Monocular Digital

Monocular head, Inclined at 45°, 360° rotatable , 1280?1024(1.3M Pixel) , USB2.0 output mode.

Objective : Achromatic Objective (DIN) 4X,10X,40X,100X

Eye-piece : WF10X/ 18

Stage : Double Layers Mechanical Stage 115X125mm/70X20mm

Operation system: WINDOWS 2000/XP/VISTA 32 Bit or 64 Bit

Illumination : 1W Powerful LED Illumination, brightness adjustable

Focusing: Coaxial coarse and fine adjustment

ESB52720





Biological Microscope Digital ESB-22

Viewing head : Monocular viewing head inclined at 45°, 360° rotation

Digital parts : Equipped with a integrated 1.3 MP 1/2.5" CMOS sensor with 1272 x 952 pixel resolution USB 2.0 camera Software included, RJ-45-Network Connection, the operating net system covers 8 microscopes, RCA-Composite video, come with USB wire connection

Eyeiece : 1pc of WF10x/18mm eyepiece

Nosepiece : Reversed quadruple ball bearings revolving Objectives: nosepiece All with anti-fungus treatment.

Achromatic objective 4x/0.10 Achromatic objective 10x/0.25

Achromatic objective 40x/0.65, spring loaded Achromatic objective 100x/1.25, spring loaded, oil Stage : Double layer mechanical stage 115 x 100 mm stage with integrated 55 x 20 mm X-Y travel range Focusing : Coaxial coarse and fine adjustments with 200 graduations. Precision 15 µm per graduation, 0.3 mm per rotation, total travel approximately 15mm, supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control

Condenser : Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

Illumination : High brightness energy-saving LED illumination for long life, brightness adjustable

Power : Supplied with rechargeable AA batteries and integrated 100-240 V power supply for cordless operation

Others : Dust cover, spare fuse, white filter, slim and easy to carry, AA batteries, user manual and immersion oil

Accessories : Brought with it selection of tools below:

2 packet Lens cleaner tissue in each packet (100pcs) screw (2 types in each type one small and one bigger) Faine hair blower brush .

Oil dropper with high grade light lubricating oil (25 ml). Selveyt cloth for cleaning lenses

Slide Stage micrometer (0.01 – 0.1mm).

Warranty : Three years warranty Opened software included

ESB52724

Optional Accessories

Cat. Number	Descriptions	Cat. Number	Descriptions
BM 2201001	Monocular viewing head inclined at 45°, 360° rotation	BM 2201021	Plain stage, size: 105 x 105 mm with two non-removable clamps
BM 2201002	Siedentop binocular models have 45° inclined tubes, interpapillary distance is adjustable between 48 and 75mm, equipped with a ±5 diopter adjustment on the left tube	BM 2201022	Double layer mechanical stage 115 x 100 mm stage with integrated 55 x 20 mm X-Y travel range
BM 2201003	Siedentop Trinocular models have 30° inclined tubes, interpapillary distance is adjustable between 48 and 75mm, equipped with a ±5 diopter adjustment on the left tube, with a fixed light path beam splitter 50:50	BM 2201023	N.A. 0.65 condenser with built-in iris diaphragm
BM 2201004	Digital monocular head with integrated camera 1.3MP CMOS, USB 2.0 port	BM 2201024	Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
BM 2201005	Digital monocular head, with integrated camera 5.0MP CMOS, USB 2.0 port	BM 2201025	
BM 2201006	IPS screen head, 7" IPS full view screen, screen size 1024x600mm, built-in 5mp color CMOS, size: 5345(H)x3003(V)um, pixel: 2.75x2.75um, resolution: 1920x1080, with a USB interface, HDMI interface & SD card, to facilitate data presentation	BM 2201026	Green filter, 32 mm diameter
BM 2201007	WF10x/18mm eyepiece	BM 2201027	Yellow filter, 32 mm diameter
BM 2201008	WF10x/18mm micrometric eyepiece	BM 2201028	Neutral grey filter, 32 mm diameter
BM 2201009	WF10x/18mm eyepiece, with pointer	BM 2201029	1 W LED replacement unit
BM 2201010	WF15x eyepiece	BM 2201030	0.35x C-Mount projection lens
BM 2201011	WF20x eyepiece	BM 2201031	0.5x C-Mount projection lens
BM 2201012	A pair of eyecups	BM 2201032	0.75x C-Mount projection lens
BM 2201013	Triple nosepiece	BM 2201033	AAA Rechargeable batteries (3pcs)
BM 2201014	Quadruple nosepiece	BM 2201034	Anti-theft slot: At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft
BM 2201015	Achromatic objective 4x/0.10	BM 2201035	Carry bag
BM 2201016	Achromatic objective 10x/0.25	BM 2201036	Aluminum case
BM 2201017	Achromatic objective 20x/0.40	DETECO5A	Digital eyepiece TECO-5A, 5.1MP, USB port
BM 2201018	Achromatic objective 40x/0.65, spring loaded	DCKOTI5A	Digital camera KOTI-5A, 5.1MP, CMOS USB 2.0
BM 2201019	Achromatic objective 60x/0.85, spring loaded	DTX195L2	Digital tablet DX1, 9.5" LCD display, 2MP, CMOS, 3 x USB 2.0 ports, 1 x HDMI port, with image process software
BM 2201020	Achromatic objective 100x/1.25, spring loaded, oil	DP1105L8	Digital tablet DP1-Pro, 10.5 tablet with touch screen, 8MP, CMOS, 4K. with 2 x USB 3.0 ports, 1 x USB 2.0 port, 1 x HDMI port, 1 x Gigabit Lan port, 2.4GHz/5GHz dual-band WIFI, support WIFI6, support blue tooth, with image process software
		***	More digital cameras are available and optional, please refer to the digital cameras



Microscope Biological, Binocular Digital HB-2D

HB-2 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life, it is also very comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adaptor, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Built-in rechargeable battery is optional for outdoors operation or places that power supply is not stable.

Description

New machining facility and advanced alignment technology

Complete functions and outfit of binocular microscope

Comfortable operation with updated and ergonomic design

Specimen images are taken with HB-2

Achromatic objective supply the sharp image after adjusting Iris diaphragm. You can get high resolution and contrast ratio image at low or high magnification. 3W Single LED illumination supplies bright background. According to different demands. It also can install 6V/20W halogen bulb, then the lighting effect is the same

High-powered single LED cold light illumination

It maintains constant colour temperature and closes to sun light. It can apply bright white back-ground without filter that is the best choice of observation for bright-field and photography by CCD. The illumination supplies stable brightness and temperature difference never occurred even long time worked. Comparing with halogen lamp, LED has lower power dissipation. Brightness is adjustable freely by the rotatable key at lower right side.

Siedentopf Binocular Head, Inclined at 30°, Inter popularise distance is adjustable from 55mm to 75mm. The left eyepiece tube is 75 diopetre adjustable.

Double Layers Mechanical Stage 140X140mm/75x50mm

Coaxial Coarse & Fine Adjustment, Moving Range 24mm, Fine Division 0.004mm

With quadruple nose-piece, it is equipped with Achromatic Objectives: 4X, 10X, 40X(S), 100X(S, Oil) (Plan Achromatic Objectives 4X, 10X, 40X, 100X are optional). NA 1.20 (NA 1.25 is optional) Abbé Condenser with Iris Diaphragm is able to acquire light brighter.

Viewing Head: Compensation Free Trinocular Head, Inclined at 45°, Inter popularise Distance 55-75mm

Eyepiece : 2X WF107/18

Objective : chromatic Objective 4X-10X-40X-100X

Backward Quadruple Nose-piece

Double Layer Mechanical Stage 132-142mm/ 75x40mm

Coaxial Coarse & Fine Adjustment, Moving Range 24mm, Fine Division 0.004mm

Abbé NA 1.20 with Iris Diaphragm & Filter

S-LED, Brightness Adjustable



ESB52719



Microscope Digital With Built In Screen 2.4 Inch

This LCD HDMI microscope integrating LCD/HDMI/TV/USB functions is highly useful for students, teachers, collectors, hobbyists, and testers etc. to explore the microscopic world. Display: 2.4-inch LCD

Magnification Ratio: 10x to 220x

Image sensor: 3 Mega Pixels

Photo size: 3M, 5M, 8M, 12M

Video size: 1080P, 720P, VGA

Video output : HDMI/TV/USB

Focus Range : Manual focus from 10mm to 50mm

Storage : Micro-SD card, up to 32G

Measurement : Yes, when working as a USB microscope

Light source : 6 LED (adjustable by control wheel)

Power source : Built-in Li-ion Battery or 5V DC-in

Size : 110mm (H) x 80mm (L) x 55mm (W)

ESB52742





Microscope Digital With Built In Screen 3.5 Inch

3.5-inch Standalone 1200x 5M LCD Digital Microscope with Photo/Video Measurement

- * 3.5" LCD Display
- * 5M pixels image sensor
- * Professional microscopic lens
- * 300x magnification, up to 1200x by digital
- * 8 LEDs with brightness adjustable
- * Battery powered, Portable and Standalone
- * Measurement function
- * TV-out to any monitor with TV-in
- * Image Sensor : 5 Mega Pixels (true resolution)
- * LCD Panel : 3.5inches
- * Still capture resolution : 12M, 9M, 5M, 3M, 1.3M, VGA
- * Video capture resolution : 12M, 9M, 5M, 3M, 1.3M, VGA
- * Focus Range : Manual focus from 10mm to 50mm
- * Frame Rate : Max 30f/s under 600 Lux Brightness
- * Magnification Ratio : up to 1200x
- * TV output : Available (to any monitor with TV in)
- * Card Slot : Support Micro-SD Card slot up to 32GB SDHC
- * Light source : 8 LED (adjustable by control wheel)
- * Battery : Rechargeable lithium battery (recharged by adaptor or USB)
- * Measurement : By software (Portable Capture with OSD language: English, German, Spanish, French, Russian)
- * OSD language : English, German, Spanish, French, Russian
- * Bundle software : Portable Capture with measurement
- * Product Size : L149 * W104 * H227 mm
- * Weight : 1100g
- * Certificates : With CE, FCC approval, ROHS compliance

ESB52743

Microscope USB Digital 200X With 8 LED

USB Digital Microscope is a high-tech while easy to use Digital Microscope. 8 LEDs with brightness adjustable are good for any inspection environment.

It is applicable in many fields such as visual inspection on electronic components, and materials in a full range of uses, beauty shop and education.

Its 2M image sensor presents vivid and sharp amazing image. The measurement software can help you to measure tiny objects easily and precisely (as small as 0.001mm). With this unit you may see a unique & "bigger" world. Image sensor : 2 Mega Pixels

- * Focus Range: Manual focus from 10mm to 500mm
- * Frame Rate: Max 30f/s under 600 Lux Brightness
- * Magnification Ratio : 10x to 200x
- * Light source : 8 LED (adjustable by control wheel)
- * Still capture resolution : 1920x1080, 1280x720, 640x480
- * Video capture resolution : 1920x1080, 1280x720, 640x480
- * Frame Rate : Max 30f/s under 600 Lux Brightness
- * Video format : AVI
- * Photo format : JPEG or BMP
- * PC interface : USB2.0
- * Power source : 5V DC from USB port
- * Operation system : Windows 7/8/10, Mac OS X 10.10 or above
- * OSD language : English, German, Spanish, Korean, French, Russian
- * Bundle software : Micro Capture with measurement & calibration function
- * Working temperature: -20 $^{\circ}$ C ~ +60 $^{\circ}$ C
- * Size: 110mm (L) x 33mm (R)



ESB52744





Microscope USB Digital 400X With 8 LED

The 400 X digital microscope is a high-tech while easy to use USB Digital Microscope. It is applicable in many fields such as visual inspection on electronic components, and materials in a full range of uses, beauty shop and education. 400x magnification bring you with tremendous details. With this unit you may see a unique & "bigger" world. Its 1.3M image sensor presents vivid and sharp amazing image. 8 LEDs with brightness adjustable are good for any inspection environment.

The measurement software can help you to measure tiny objects easily and precisely (as small as 0.001mm).

All the excellent features make it a good aid for your daily inspection on tiny objects.* Image sensor: 1.3 Mega Pixels

* Focus Range: Manual focus from 10mm to 500mm

* Frame Rate: Max 30f/s under 600 Lux Brightness

* Magnification Ratio: 10x to 400x

* Light source : 8 LED (adjustable by control wheel)

* Still capture resolution : 1280x960, 1280x720, 640x480

* Video capture resolution : 1280x960, 1280x720, 640x480

* Frame Rate : Max 30f/s under 600 Lux Brightness

* Video format : AVI

* Photo format : JPEG or BMP

* PC interface : USB2.0

* Power source : 5V DC from USB port

* Operation system : Windows2000/XP/Vista/Win7/Win8, Mac OS X 10.6 or above

* OSD language : English, German, Spanish, Korean, French, Russian

* Bundle software : Micro Capture with measurement & calibration function

* Working temperature : -20 \hat{a}_{u} f ~ +60 \hat{a}_{u} f

* Size : 130mm (L) x 33mm (R)

ESB52745

Microscope USB Digital With HDMI Output

This high-tech while easy to use microscope provides video crystal output directly. It adopts top quality image sensor and corresponding glass microscopic lens, ensuring the best image quality in the digital microscope field. User can share full HD image with others easily, especially useful for school teachers to share microscopic image with students.

It support photo capture; Micro-SD card storage. Image sensor: 3 Mega Pixels

* Video output: 1080P

* Video format: HDMI-H.264; USB-MJPEG

* Photo format: JPEG

* Photo resolution: 14M, 8M, 5M, 3M, 2M, WVGA

* Focus Range : Manual focus from 10mm to 500mm

* Frame Rate : Max 30f/s under 600 Lux Brightness

* Magnification Ratio: 10x to 220x

* Video-output Interface : HDMI

* Storage : Micro-SD card, up to 32G

* Light source : 6 LED (adjustable by control wheel)

* Operation Temperature : 0-55 degree

* Power source : 5V DC

* Size : 185mm (L) x 33mm (R)

ESB52747

Microscope USB Digital

USB Digital Microscope

Image sensor : 5 Mega Pixels (true resolution)

Still capture resolution : 5M, 3M, 1.3M, VGA, QVGA

Video capture resolution : 5M, 3M, 1.3M, VGA, QVGA

Focus range : Manual focus from 10mm to 500mm

Frame rate : Max 30f/s under 600 Lux Brightness

Magnification ratio : 20x and 300x

Light source : 8 LED (adjustable by control wheel)

PC interface : USB2.0

Operation system : Windows XP/Vista/Win7, Mac OS X 10.6 or above

Product size : 110mm (L) x 33mm (R), Weight : 90g

ESB52746





Binocular Student Microscopes Basic

Model: IT10ED

- Viewing head: Sliding Binocular Head, Inclined at 30°, Interpupillary 55-75mm, 360° Rotatable with integrated camera system 1.3mp (1280x1024), USB2.0 output, Advance software, OS for WINDOWS
- Nosepiece: Quadruple revolving nosepiece
- Eyepiece: Eyepiece WF 10X/18 mm wide field
- Objectives : Achromatic DIN objective 4x/0.10
Achromatic DIN objective 10x/0.25
Achromatic DIN objective 40x/0.65, spring loaded
Achromatic DIN objective 100x/1.25, spring loaded, oil
- Stage: Double layers mechanical stage 110x120mm/70x20mm
- Focusing: Coaxial coarse and fine adjustment, range 10 mm
- Condenser: Abbe NA 1.20 with iris diaphragm & blue filter, rack and pinion adjustment for condenser
- Illumination: 1W LED, brightness adjustable
- Supplied with: Dust cover, spare fuse
- Power: 100-220V, 50/60Hz, output DC 7.5V
- Dimensions: 180x130x340mm, net weight 2.3 kgs
- Packing: Styrofoam shelf in a cardboard box

ESB52774

Optional Accessories

Cat. Number	Descriptions
M11031001	Eyepiece WF5x
M11031002	Eyepiece P16x
M11031003	Eyepiece WF20x
M11031004	Eyepiece WF10x with pointer
M11031005	Quadruple nosepiece
M11031006	Achromatic DIN objective 20x
M11031007	Achromatic DIN objective 60x
M11031008	Achromatic DIN objective 100x
M11031009	Stage: Plain stage with slide clips 110x120mm
M11031010	Stage: Plain stage with attachable mechanical stage 110x120mm/60x30mm
M11031011	Stage: Double layers mechanical stage 110x120mm/70x20mm
M11031012	Condenser: Abbe NA 1.2 with iris diaphragm & blue filter, rack and pinion adjustment for condenser
M11031013	Reflecting mirror



Binocular Biological Microscope ESB-BM30

with Dark Field Attachment and Phase Contrast Kit (Anti-Fungus)

Optical system :Finite optical system

Viewing head : Sliding binocular viewing head inclined at 45°, interpupillary 55-75mm, 360° rotation, Anti-Fungus.

Eyeiece :A pair of WF10x/18mm eyepiece, with diopter adjustment.

Nosepiece :Reversed quadruple ball bearings revolving nosepiece

Objectives :

All with anti-fungus treatment.

Achromatic objective 4x/0.10

Achromatic objective 10x/0.25

Achromatic objective 40x/0.65, spring loaded

Achromatic objective 100x/1.25, spring loaded, oil

Stage :Double layer mechanical stage, with size : 140x140mm, 75x50mm X-Y movement range.Vernier scale on the two axes, accuracy : 0.1mm

Focusing :Integrated design, coaxial focus system with upper limited and tension adjustment, coarse stroke 37.7mm per

rotation, fine precision: 0.002mm, moving range: 28mm, provided with an adjustable tightness device to prevent slipping and a mechanical upper limit device

Condenser :Abbe N.A. 1.25 condenser with aperture diaphragm

Illumination: High brightness 3W LED illumination for long life, brightness adjustable Plan-concave Mirror

Kohler illumination (optional)

Power :Multi-plug 100-240Vac, 50/60Hz external power supply

Others :Dust cover, green filter, immersion oil and user manual

Phase Contrast kit : Simple phase contrast kit

Dark Field Attachment : Dry Dark field attachment

**ESB52775****Optional Accessories**

Cat. Number	Descriptions	Cat. Number	Descriptions
BM 2201001	Monocular viewing head inclined at 45°, 360° rotation	BM 2201021	Plain stage, size: 105 x 105 mm with two non-removable clamps
BM 2201002	Siedentop binocular models have 45° inclined tubes, interpupillary distance is adjustable between 48 and 75mm, equipped with a ±5 diopter adjustment on the left tube	BM 2201022	Double layer mechanical stage 115 x 100 mm stage with integrated 55 x 20 mm X-Y travel range
BM 2201003	Siedentop Trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75mm, equipped with a ±5 diopter adjustment on the left tube, with a fixed light path beam splitter 50:50	BM 2201023	N.A. 0.65 condenser with built-in iris diaphragm
BM 2201004	Digital monocular head with integrated camera 1.3MP CMOS, USB 2.0 port	BM 2201024	Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
BM 2201005	Digital monocular head, with integrated camera 5.0MP CMOS, USB 2.0 port	BM 2201025	
BM 2201006	IPS screen head, 7" IPS full view screen, screen size 1024x600mm, built-in 5mp color CMOS, size: 5345(H)x3003(V)um, pixel: 2.75x2.75um, resolution: 1920x1080, with a USB interface, HDMI interface & SD card, to facilitate data presentation	BM 2201026	Green filter, 32 mm diameter
BM 2201007	WF10x/18mm eyepiece	BM 2201027	Yellow filter, 32 mm diameter
BM 2201008	WF10x/18mm micrometric eyepiece	BM 2201028	Neutral grey filter, 32 mm diameter
BM 2201009	WF10x/18mm eyepiece, with pointer	BM 2201030	0.35x C-Mount projection lens
BM 2201010	WF15x eyepiece	BM 2201031	0.5x C-Mount projection lens
BM 2201011	WF20x eyepiece	BM 2201032	0.75x C-Mount projection lens
BM 2201012	A pair of eyecups	BM 2201033	AAA Rechargeable batteries (3pcs)
BM 2201013	Triple nosepiece	BM 2201034	Anti-theft slot: At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft
BM 2201014	Quadruple nosepiece	BM 2201035	Carry bage
BM 2201015	Achromatic objective 4x/0.10	BM 2201036	Aluminum case
BM 2201016	Achromatic objective 10x/0.25	DETECO5A	Digital eyepiece TECO-5A, 5.1MP, USB port
BM 2201017	Achromatic objective 20x/0.40	DCKOTI5A	Digital camera KOTI-5A, 5.1MP, CMOS USB 2.0
BM 2201018	Achromatic objective 40x/0.65, spring loaded	DTX195L2	Digital tablet DX1, 9.5" LCD display, 2MP, CMOS, 3 x USB 2.0 ports, 1 x HDMI port, with image process software
BM 2201019	Achromatic objective 60x/0.85, spring loaded	DP1105L8	Digital tablet DP1-Pro, 10.5 tablet with touch screen, 8MP, CMOS, 4K, with 2 x USB 3.0 ports, 1 x USB 2.0 port, 1 x HDMI port, 1 x Gigabit Lan port, 2.4GHz/5GHz dual-band WIFI, support WIFI6, support blue tooth, with image process software
BM 2201020	Achromatic objective 100x/1.25, spring loaded, oil	***	More digital cameras are available and optional, please refer to the brochure of ICOE digital cameras



Biological Microscope Advance ESB-BM30WB

with Advanced Alignment, LED Illumination

Viewing head :Sliding binocular viewing head inclined at 45°, interpupillary 55-75mm, 360° rotation, Anti-Fungus.

Eyepiece: A pair of WF10x/18mm eyepiece, with diopter adjustment.

Nosepiece :Reversed quadruple ball bearings revolving nosepiece

Objectives :All with anti-fungus treatment.

Achromatic objective 4x/0.10

Achromatic objective 10x/0.25

Achromatic objective 40x/0.65, spring loaded

Achromatic objective 100x/1.25, spring loaded, oil

Stage : Double layer mechanical stage, with size: 140x140mm, 75x50mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1mm

Focusing : Integrated design, coaxial focus system with upper limited and tension adjustment, coarse stroke 37.7mm per

rotation, fine precision: 0.002mm, moving range: 28mm, provided with an adjustable tightness device to prevent slipping and a mechanical upper limit device

Condenser : Abbe N.A. 1.25 condenser with aperture diaphragm

Illumination : High brightness 3W LED illumination for long life, brightness adjustable

Plan-concave Mirror Kohler illumination (optional)

Power :Multi-plug 100-240Vac, 50/60Hz external power supply

Others :Dust cover, green filter, immersion oil and user manual



ESB52776

Optional Accessories

Cat. Number	Descriptions	Cat. Number	Descriptions
M 11BM 3001	Binocular head	M 11BM 3030	Plan darkfield objective 100x with iris diaphragm for oil dark field condenser
M 11BM 3002	Trinocular head	M 11BM 3031	Plan phase contrast achromatic objective 10x/0.25
M 11BM 3003	Sliding binocular head	M 11BM 3032	Plan phase contrast achromatic objective 20x/0.40
M 11BM 3004	Sliding trinocular head	M 11BM 3033	Plan phase contrast achromatic objective 40x/0.65
M 11BM 3005	Eyepiece WF10x/18mm	M 11BM 3034	Plan phase contrast achromatic objective 100x/1.25
M 11BM 3006	Eyepiece WF10x/20mm	M 11BM 3029	Plan achromatic objective 100x/1.25, spring loaded, oil
M 11BM 3007	Eyepiece P16x	M 11BM 3035	N.A. 1.25 Abbe Condenser
M 11BM 3008	Eyepiece WF20x	M 11BM 3036	Dark Field Condenser NA0.7-0.9 (Dry)
M 11BM 3009	Eyepiece WF10x/18mm with micrometer	M 11BM 3037	Dark Field Condenser NA1.25-1.36 (Oil)
M 11BM 3010	Eyepiece WF10x/20mm with micrometer	M 11BM 3038	Simple Polarization Set: Polarizer & Analyzer
M 11BM 3011	Backward quadruple revolving nosepiece	M 11BM 3039	Turret phase contrast set, including turret phase contrast condenser, plan phase contrast objectives 4x, 20x, 40x & 100x, with centering telescope & green filter
M 11BM 3012	Achromatic objective 4x/0.10	M 11BM 3040	Turret phase contrast set, including turret phase contrast condenser, phase contrast achromatic objectives 4x, 20x, 40x & 100x, with centering telescope & green filter
M 11BM 3013	Achromatic objective 10x/0.25	EFLAYX2	Epi-Fluorescent Attachment "XY-2": Including filter block system, fluorescent filter block B & G excitation filter block included; 100W HBO ultra hi-voltage spherical mercury lamp; power supplier NFP-1, 220V/110V interchangeable, digital display and timer; protection barrier to resist the ultraviolet light; fluorescent oil
M 11BM 3014	Achromatic objective 20x/0.40	EFLAYX2BG	B & G fluorescent block set, including two filters: (used for XY-2) BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM 500 - Barrier Filter BA520 GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM 570 - Barrier Filter BA590
M 11BM 3015	Achromatic objective 40x/0.65, spring loaded	EFLAYX2UV	U & V fluorescent block set, including two filters: (used for XY-2) ULTRAVIOLET Filter Block: excitation BP330~385 - DM 400 - Barrier Filter BA420 VIOLET Filter Block: excitation BP400~410 - DM 455 - Barrier Filter BA455
M 11BM 3016	Achromatic objective 60x/0.85, spring loaded	IPFO004X	Fluorescent objective 4x/0.10
M 11BM 3017	Achromatic objective 100x/1.25, spring loaded, oil	IPFO010X	Fluorescent objective 10x/0.25
M 11BM 3018	Semi-plan achromatic objective 4x/0.10	IPFO040X	Fluorescent objective 40x/0.65
M 11BM 3019	Semi-plan achromatic objective 10x/0.25	IPFO100X	Fluorescent objective 100x/1.25
M 11BM 3020	Semi-plan achromatic objective 20x/0.40	M 12BM 3041	1X C mount
M 11BM 3021	Semi-plan achromatic objective 40x/0.65, spring loaded	M 12BM 3042	0.5X C mount
M 11BM 3022	Semi-plan achromatic objective 60x/0.85, spring loaded	M 12BM 3043	LED Illumination bulb replacement unit
M 11BM 3023	Semi-plan achromatic objective 100x/1.25, spring loaded, oil	M 12BM 3044	Rechargeable device
M 11BM 3024	Plan achromatic objective 4x/0.10	M 12BM 3045	Kohler illumination
M 11BM 3025	Plan achromatic objective 10x/0.25	YTCSRT50	Temperature Control System: Temperature Controlling Range: Room Temperature to 50°C, with digital control box
M 11BM 3026	Plan achromatic objective 20x/0.40	DITA001	DP1 tablet with 10.5" touchscreen, integrated with 4K 8MP camera, 1/2" sensor, 2.0x2.0um, CMOS chip, with 1 x HDMI port, Image: 30@3840*2160, support 1080 video, with Android OS system, built-in image process software
M 11BM 3027	Plan achromatic objective 40x/0.65, spring loaded	DITA002	DP2 tablet with 10.5" touchscreen, integrated with 16MP camera, 1/2.33" sensor, 1.85x1.85um, CMOS chip, with 1 x HDMI port, 2x USB 2.0 port, 1TF card port, 2.4GHz/5GHz dual-band WIFI, support WIFI6, Support Bluetooth 5.0, Image: 30@4632x3488, support 1080 video, with windows 10 OS system, built-in image process software
M 11BM 3028	Plan achromatic objective 60x/0.85, spring loaded	***	Various digital camera optional (please refer to ICOE digital camera brochure)



Microscope Biological Binocular HB-2

New machining facility and advanced alignment technology

Complete functions and outfit of binocular microscope

Comfortable operation with updated and ergonomic design

Specimen images are taken with HB-2

Achromatic objective supply the sharp image after adjusting Iris diaphragm. You can get high resolution and contrast ratio image at low or high magnification. 3W Single LED illumination supplies bright background. According to different demands. it also can install 6V/20W halogen bulb, then the lighting effect is the same

High-powered single LED cold light illumination

It maintains constant colour temperature and closes to sun light. It can apply bright white background without filter that is the best choice of observation for bright-field and photography by CCD. The illumination supplies stable brightness and temperature difference never occurred even long time worked. Comparing with halogen lamp, LED has lower power dissipation. Brightness is adjustable freely by the rotatable key at lower right side.

Siedentopf Binocular Head, Inclined at 30°, Interpupillary distance is adjustable from 55mm to 75mm. The left eyepiece tube is 5 dioptre adjustable.

Double Layers Mechanical Stage 140X140mm/75x50mm

Coaxial Coarse & Fine Adjustment, Moving Range 24mm, Fine Division 0.004mm

With quadruple nose-piece, it is equipped with Achromatic Objectives : 4X,10X,40X(S),100X(S, Oil) (Plan Achromatic Objectives 4X, 10X, 40X, 100X are optional). NA 1.20 (NA 1.25 is optional) Abbé Condenser with Iris Diaphragm is able to acquire light brighter.

Viewing Head: Compensation Free Binocular Head, Inclined at 45°, Interpupillary Distance 48-75mm

Eyepiece : 2 X WF10X/18

Achromatic Objective : 4X-10X-40X-100X

Backward Quadruple Nose-piece, Double Layer Mechanical Stage 132X142mm/ 75X40mm

Coaxial Coarse & Fine Adjustment, Moving Range 24mm, Fine Division 0.004mm, Abbé NA 1.20 with Iris Diaphragm & Filter

S-LED, Brightness Adjustable



ESB52780



Microscope Biological Binocular HB-1

Siedentopf Binocular Head, Inclined at 30°, Interpupillary 55-75mm

Wide Field Eyepiece WF 10X/18

Achromatic Objective 4X, 10X, 40X, 100X

Quadruple Nose-piece

Double Layers Mechanical Stage 125 X125mm/60x40mm

NA 1.25 Abbé Condenser with Iris Diaphragm

Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 14mm

1W LED Illumination, Brightness Adjustment

Blue Filter | Green Filter | Yellow Filter

ESB52781



Microscope Biological Binocular HB-ADV

Viewing head: Siedentopf Trinocular Head, Inclined at 30°, Interpupillary 55-75mm

Eyepiece: 2x Wide Field Eyepiece WF 10X/18

Objective: Achromatic Objective 4X, 10X, 40X, 100X

Nose-piece: Quadruple Nose-piece

Stage : double Layers Mechanical Stage 140X140mm/75x50mm

Condenser : NA 1.25 Abbé Condenser with his Diaphragm

Focusing System : Coaxial Coarse and Fine Adjustment. Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm

Illumination : Single LED Illumination, Brightness Adjustment

Filter : Blue Filter, Green Filter

ESB52782



**ESB52777 Series Biological Microscopes**

Model: ESB-BM38B

Viewing head : Seidentopf Binocular Head, Inclined at 30°, Interpupillary 47-75mm, 360° Rotatable

Nosepiece : Quadruple revolving nosepiece

Eyepiece : Wide Field Eyepiece WF10X/20

Objectives:

Achromatic objective 4x/0.10

Achromatic objective 10x/0.25

Achromatic objective 40x/0.65, spring loaded

Achromatic objective 100x/1.25, spring loaded, oil

Stage : Double Layers Mechanical Stage 150x139mm/75x52mm

Focusing: Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm,

Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 30mm

Condenser: NA 1.25 Abbe Condenser with Aperture Diaphragm

Illumination: LED illumination for long life, brightness adjustable

Supplied with: Dust cover, spare fuse, blue & green filters

Power: 100-240V, 50/60Hz

ESB52777

Optional Accessories

Cat. Number	Descriptions	Cat. Number	Descriptions
M11121001	Monocular head	M11121022	Plan Achromatic objective 10x
M11121002	Digital Viewing Head Inclined at 30°, 5M pixels, Support Wi-Fi	M11121023	Plan Achromatic objective 20x
M11121003	Digital Viewing Head Inclined at 30°, 5M pixels, 8" LCD, Android OS	M11121024	Plan Achromatic objective 40x
M11121004	Eyepiece P16x/11	M11121025	Plan Achromatic objective 60x
M11121005	Eyepiece WF10x with pointer	M11121026	Plan Achromatic objective 100x
M11121006	Eyepiece WF10x/20	M11121027	Halogen Lamp 6V/20W, Brightness Adjustable
M11121007	Micrometer for eyepiece	M11121028	S-LED Illumination with Recharger
M11121008	Eyecups	M11121029	Kohler Illumination
M11121009	Achromatic objective 4x	M11121030	ECO Function
M11121010	Achromatic objective 10x	M11121031	Plane-concave Mirror
M11121011	Achromatic objective 20x	M11121032	Dark Field Condenser NA0.7-0.9 (Dry)
M11121012	Achromatic objective 40x	M11121033	Dark Field Condenser NA1.25-1.36 (Oil)
M11121013	Achromatic objective 60x	M11121034	Single Phase Contrast Kit
M11121014	Achromatic objective 100x	M11121035	Sliding Phase Contrast Kit
M11121015	Semi-Plan Achromatic objective 4x	M11121036	Turret Phase Contrast Kit
M11121016	Semi-Plan Achromatic objective 10x	M11121037	Simple Polarization Set: Polarizer & Analyzer
M11121017	Semi-Plan Achromatic objective 20x	M11121038	LED Epi-fluorescent Attachment FL-LED
M11121018	Semi-Plan Achromatic objective 40x	M11121039	Epi-fluorescent Attachment XY-2
M11121019	Semi-Plan Achromatic objective 60x	M11121040	1X C mount
M11121020	Semi-Plan Achromatic objective 100x	M11121041	0.5X C mount
M11121021	Plan Achromatic objective 4x		



ESB52777 Series Biological Microscopes

Model: ESB38BN

Viewing head: Seidentopf Binocular Head, Inclined at 30°,
Interpupillary 47-75mm, 360° Rotatable

Nosepiece : Quadruple revolving nosepiece

Eyepiece: 2pcs of Wide Field Eyepiece WF10X/20 FOV, 1 eyepiece
with pointer

Objectives :

Plan achromatic objective 4x/0.10

Plan achromatic objective 10x/0.25

Plan achromatic objective 40x/0.65, spring loaded

Plan achromatic objective 100x/1.25, spring loaded, oil

Stage : Double Layers Mechanical Stage 150x139mm/75x52mm

Graticule 1-100um division plate

Focusing: Coaxial Coarse and Fine Adjustment, Fine Division
0.002mm,Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per
Rotation, Moving Range 25mm Limit stop to prevent accidental
damage to slides

Condenser: NA 1.25 Abbe Condenser with Aperture Diaphragm

Illumination: LED illumination for long life, brightness adjustable

Supplied with: Dust cover, spare fuse, blue & green filters

Power : 100-240V, 50/60Hz

Warranty : 5 Year Mechanical & 1 Year Electrical

ESB52777BN

Cat. Number	Descriptions	Cat. Number	Descriptions
M11121001	Monocular head	M11121019	Plan Achromatic objective 60x
M11121002	Digital Viewing Head Inclined at 30°, 5M pixels, Support Wifi	M11121020	Plan Achromatic objective 100x
M11121003	Digital Viewing Head Inclined at 30°, 5M pixels, 8" LCD, Android OS	M11121021	Halogen Lamp 6V/20W, Brightness Adjustable
M11121004	Eyepiece P16x/11	M11121022	S-LED Illumination with Recharger
M11121005	Eyepiece WF10x with pointer	M11121023	Kohler Illumination
M11121006	Eyepiece EW10x/20	M11121024	ECO Function
M11121007	Achromatic objective 20x	M11121025	Plane-concave Mirror
M11121008	Achromatic objective 60x	M11121026	Dark Field Condenser NA0.7-0.9 (Dry)
M11121009	E-Plan Achromatic objective 4x	M11121027	Dark Field Condenser NA1.25-1.36 (Oil)
M11121010	E-Plan Achromatic objective 10x	M11121028	Single Phase Contrast Kit
M11121011	E-Plan Achromatic objective 20x	M11121029	Sliding Phase Contrast Kit
M11121012	E-Plan Achromatic objective 40x	M11121030	Turret Phase Contrast Kit
M11121013	E-Plan Achromatic objective 60x	M11121031	Simple Polarization Set: Polarizer & Analyzer
M11121014	E-Plan Achromatic objective 100x	M11121032	LED Epi-fluorescent Attachment FL-LED
M11121015	Plan Achromatic objective 4x	M11121033	Epi-fluorescent Attachment XY-2
M11121016	Plan Achromatic objective 10x	M11121034	1X C mount
M11121017	Plan Achromatic objective 20x	M11121035	0.5X C mount
M11121018	Plan Achromatic objective 40x		



Infinite Biological Microscopes

Model : ESB38UIB Infinite Biological Microscope

Viewing head: Seidentopf Binocular Head, Inclined at 30°, Interpupillary 47-75mm, 360° Rotatable

Nosepiece : Quadruple revolving nosepiece

Eyepiece: 2pcs of Wide Field Eyepiece WF10X/20 FOV

Objectives:

Infinite Plan Achromatic objective 4x/0.10

Infinite Plan Achromatic objective 10x/0.25

Infinite Plan Achromatic objective 40x/0.65, spring loaded

Infinite Plan Achromatic 100x/1.25, spring loaded, oil

Stage : Rackless Double Layer Mechanical Stage 150X140mm, Moving Range 76X52mm

Focusing : Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm,

Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 25mm Limit stop to prevent accidental damage to slides

Condenser : NA 1.25 Abbe Condenser with Aperture Diaphragm

Illumination : LED illumination for long life, brightness adjustable, with cord holder

Supplied with : Dust cover, spare fuse, blue & green filters

Power: 100-240V, 50/60Hz

Warranty: 5 Year Mechanical & 1 Year Electrical

ESB52777UIB

**Optional Accessories**

Cat. Number	Descriptions	Cat. Number	Descriptions
M11121001	Monocular head	M11121019	Plan Achromatic objective 60x
M11121002	Digital Viewing Head Inclined at 30°, 5M pixels, Support Wifi	M11121020	Plan Achromatic objective 100x
M11121003	Digital Viewing Head Inclined at 30°, 5M pixels, 8" LCD, Android OS	M11121021	Halogen Lamp 6V/20W, Brightness Adjustable
M11121004	Eyepiece P16x/11	M11121022	S-LED Illumination with Recharger
M11121005	Eyepiece WF10x with pointer	M11121023	Kohler Illumination
M11121006	Eyepiece EW10x/20	M11121024	ECO Function
M11121007	Achromatic objective 20x	M11121025	Plane-concave Mirror
M11121008	Achromatic objective 60x	M11121026	Dark Field Condenser NA0.7-0.9 (Dry)
M11121009	E-Plan Achromatic objective 4x	M11121027	Dark Field Condenser NA1.25-1.36 (Oil)
M11121010	E-Plan Achromatic objective 10x	M11121028	Single Phase Contrast Kit
M11121011	E-Plan Achromatic objective 20x	M11121029	Sliding Phase Contrast Kit
M11121012	E-Plan Achromatic objective 40x	M11121030	Turret Phase Contrast Kit
M11121013	E-Plan Achromatic objective 60x	M11121031	Simple Polarization Set: Polarizer & Analyzer
M11121014	E-Plan Achromatic objective 100x	M11121032	LED Epi-fluorescent Attachment FL-LED
M11121015	Plan Achromatic objective 4x	M11121033	Epi-fluorescent Attachment XY-2
M11121016	Plan Achromatic objective 10x	M11121034	1X C mount
M11121017	Plan Achromatic objective 20x	M11121035	0.5X C mount
M11121018	Plan Achromatic objective 40x		



Model		ESB52777 LCD
Viewing Head	Siedentop Binocular Viewing Head Inclined at 30°, interpapillary 47-77mm Siedentop Trinocular Viewing Head Inclined at 30°, interpapillary 47-78mm	•
LCD Attachment	CPU	RK3288 Quad-core 1.8Hz
	Display	9.7" screen, High resolution (2048*1536) color LCD with touch screen
	Storage	RAM 2GB DDR3, ROM 8GB, 32GB extension storage
	Camera	5MP color cameras
	Network	WI-FI, Bluetooth
	Interface	USB2.0 (OTG) *2, Support USB keyboard mouse
		TF card
		DC12V power input
Built-in cameras		Audio
		Mibi HDMI output
	Sensor Size	1/2.5-inch (4:3)
	Effective imaging size	5.70mm (H) x4.28mm (V)
		7.13mm(diagonal)
	Effective pixel	2592H x 1944V
	Pixel size	2.2um x 2.2um
	Dynamic range	66.5dB
	SNR (maximum)	40.5dB
	A/D conversion resolution	12-bit, on-chip
	Sensitivity	0.53V/lux-sec (550nm)
	Frame rate	2048*1536@15 fps 1024*768@30 fps
	Exposure range and manner	Electronic shutter shutter (ERS), automatic
	white balance	Manual/automatic
Eyepiece	WF10X/18	••
Nosepiece	Backward Quadruple Nosepiece	•
Objective	Achromatic Objective	4x
		10x
		40x
		100x
	Plan Achromatic Objective	4x
		10x
		20x
		40x
		60x
		100x
Condenser	NA1.25 Abbe Condenser	•
Focusing System	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm	•
Stage	Double Layers Mechanical Stage 140X140mm, Moving Range 75X50mm	•
Illumination	Halogen Lamp 6V/20W	○
	S-LED Illumination	•
	Kohler Illumination	○
	ECO Function	○
	Plane-concave Mirror	○
Accessories	Photo Attachment	○
	Video Adapter	C mount 1X
		C mount 0.5X
	Polarization Set	Simple Polarization Set
	Phase Contrast Kit	○
		○
	Dark Field Attachment	Dark Field Condenser (Dry)
		Dark Field Condenser (Oil)
	Epi-Fluorescent Illumination FL-LED	○
	Epi-Fluorescent Illumination YX-2	○

“•”=Included with delivery “○”=Option





Microscope Biological Binocular

EB2900 Series Biological Microscope features the same infinity corrected optical system used in EduScience research microscopes.

The microscope is a built-to-last, top-quality biological microscope ideal for diagnostic analysis of medical purpose, basic laboratory use or as a student microscope

for educational purposes. It meets all lab needs of today's student. With the newly developed LED illumination system, these microscopes produce brighter, Sharper, clearer images for a noticeably enhanced view. The advanced ergonomics and durable design ensure years of comfortable and stable use.

Best of all, EB2900 maintains the same operational ease and rigidity common to all EduScience microscopes and is compatible with many accessories for higher-grade EB2900 series microscopes. Newly designed accessories for phase contrast, dark field and simple polarization are available.

Optical System : Finite Optical System

Viewing head : Siedentopf Trinocular Head, Inclined at 30°, Interpupillary 46-75mm

Eyepiece : High Eye point Eyepiece PL10x/23mm, Dioptre Adjustment i5, Tube Diameter 30mm

Nose-piece : Backward Quadruple Nose-piece

Objectives : Plan Achromatic Objective 4X, 10X, 40X, 100X

Stage: New-Designed large graphite coating double layer mechanical stage: 216X150mm, travel range: 55X76mm, verniers for X/Y coordinate, precision 0.1mm, damped double slide clamp

Condenser : NA 1.25 Abbé Condenser with Iris Diaphragm

Focusing System: Coaxial Coarse and Fine Adjustment Knob, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Fine Focus Graduation of 1µm. Focus Range 16mm

Illumination : 3W LED Illumination with Kohler illumination system, Brightness Adjustment

Filter: Blue Filter, Green Filter

ESB52783

Microscope Biological Binocular Infinity Lenses

EB2900 Series Biological Microscope features the same infinity corrected optical system used in EduScience research microscopes.

The microscope is a built-to-last, top-quality biological microscope ideal for diagnostic analysis of medical purpose, basic laboratory use or as a student microscope

For educational purposes. It meets all lab needs of today's student. With the newly developed LED illumination system, these microscopes produce brighter, Sharper, clearer images for a noticeably enhanced view. The advanced ergonomics and durable design ensure years of comfortable and stable use.

Best of all, EB2900 maintains the same operational ease and rigidity common to all EduScience microscopes and is compatible with many accessories for higher-grade EB2900 series microscopes. Newly designed accessories for phase contrast, dark field and simple polarization are available.

Optical System : Infinity corrected optical system

Viewing head : Siedentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm

Eyepiece : High Eye point Eyepiece PL10x/23mm, Dioptre Adjustment i5, Tube Diameter 30mm

Nose-piece : Backward Quadruple Nose-piece

Objectives : Infinity Plan Achromatic Objective 4X, 10X, 40X, 100X

Stage: New-Designed large graphite coating double layer mechanical stage: 216X150mm, travel range: 55X76mm, verniers for X/Y coordinate, precision 0.1mm, damped double slide clamp

Condenser : NA 1.25 Abbé Condenser with Iris Diaphragm

Focusing System: Coaxial Coarse and Fine Adjustment Knob, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Fine Focus Graduation of 1µm. Focus Range 16mm

Illumination : 3W LED Illumination with Kohler illumination system, Brightness Adjustment

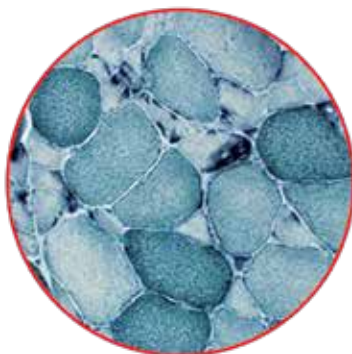
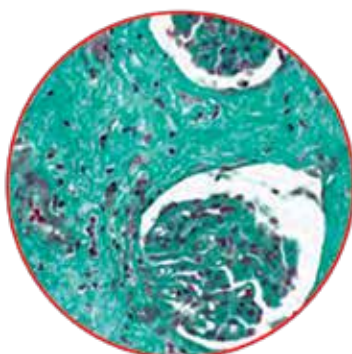
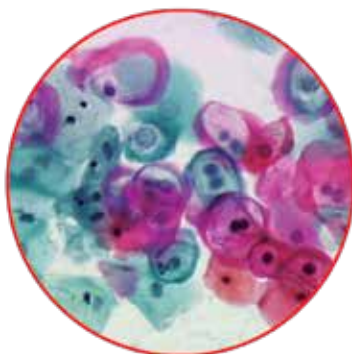
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ESB52784



UPRIGHT LABORTORY LEVEL MICROSCOPES

Comfortable and Efficient, Various Observations, Intelligent, Environmentally Friendly

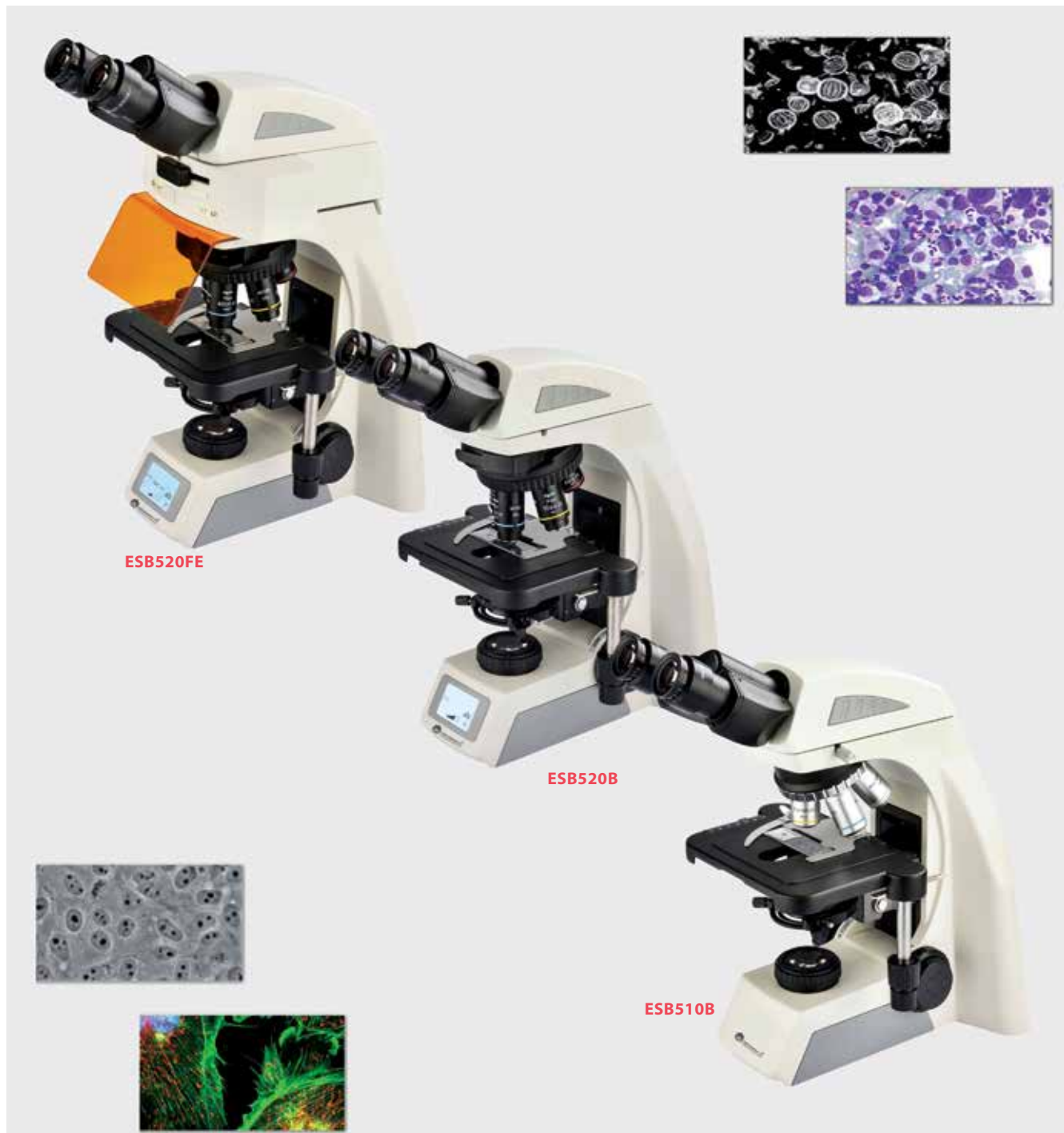


MICROSCOPE EXPERT, DESIGN FOR SATISFYING USER



ESB-500 Series Compound Microscopes, Designed for Satisfying Needs of Modern Laboratories, Clinics and Universities.

The ESB500 series is available in various configurations suitable for Life and Biomedical Sciences, high schools, universities but also for routine medical applications. Besides the brightfield contrast method, configurations for phase contrast, darkfield, basic polarization and several epi-illumination sources for fluorescence applications can be used. ESB500 series models with multi-heads are also available for teaching purposes



- Wide range to fulfil specific lab requirements
- Valuable solutions for life and material sciences
- Compliant with several observation methods

- Full planarity optics on FN 22mm
- Koehler illumination for crisp and contrasted images
- Rounded edge, rackless stage to prevent scratches



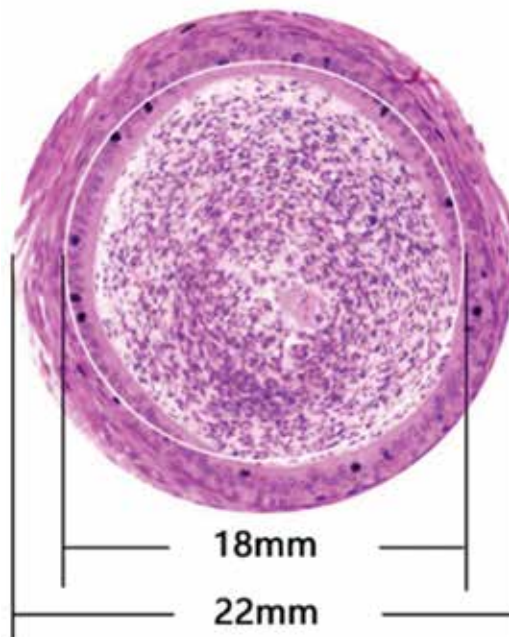
EXCELLENT OPTICAL DESIGN

NIS Infinity Optical System

NIS Infinity plan objectives can provide high contrast and very flat image up to FN22. With FN22 wide field eyepieces, the system always brings you sharp, excellent resolution and high signal to noise ratio image.

22mm Wide Field of View

The ESB500 series microscope achieves the wide field of 22mm view with 10x eyepieces for a more comprehensive observation content and faster sample observation. The eyepieces adopts a flat field distortion-free design to prevent the edge of the field from being imaginary and stray light.



Various Observation Methods

With the deepening of research in various field, a single observation mode can no longer meet the daily scientific research work. As a continually upgradable microscope, ESB500 can be extended on basic models to show a variety of observation capabilities.

Observation Methods

Bright Field
Dark Field
Phase Contrast
Fluorescent
Simple
Polarizing

Multifunctional Universal Condenser

ESB500 offers universal condensers for bright field, dark field and phase contrast. The observation methods could be quickly switched by switching the slider. The phase contrast and bright field slider is universal for 4x-100x objectives also, simple and fast to use. The N.A. value index on the aperture diaphragm of the condenser is easily set to get exact size of diaphragm to correspond with the different objectives.

A slider with a simple dark stop for darkfield up to 400x magnification is also available

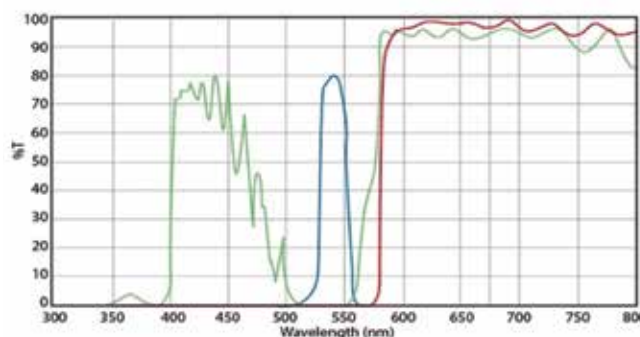
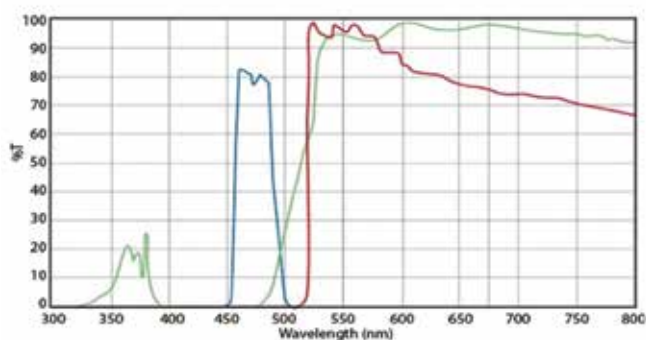


"FE" LED EPI-Fluorescent Illumination

Our "FE" LED EPI- Fluorescent illumination is safety and convenient. You don't need time to warm up or cool down. You don't need to align the bulb, and the long lifetime of LED bulb is up to 5000 hours. There are two filters position available and switching is fast and easy.



The excellent optics and mechanical components make the ESB500 a state-of-the art microscope that is suitable for fluorescence applications in life science and biotechnical fields



Excellent Infinity Optics Objectives

ESB500 is suitable for all kinds of microscopic using, especially for beginners and the users with long time micro-operation.

The ESB500 series of microscopes are fully optimized for the needs of such users. In terms of the objectives, the image quality and ease of use are achieved.

Plan Objective

By using infinity plan objectives, flat image with higher imaging reduction degree over the entire field of view could be achieved.

Microscope Objective Oil Immersion 100 X

Ordinary 100X oil-immersion objective needs to use cedar oil as the observation medium. After use, it needs to be cleaned with ether alcohol or xylene, which is easy to cause air pollution and improper cleaning. The water-immersion objective uses water as a medium to solve the above problems perfectly, reducing the damage to the body and environmental pollution.



Two 100x water immersion objectives are available: suitable for all brands of microscopes, for a wide range of applications:

The left one: 100x NA=1.1 WD=0.2, aluminum color, parfocal distance 45, objective thread 4/5». The right one: 100x NA=1.1 WD=0.2, aluminum black shell, parfocal distance 60, objective lens M25



40x LWD Objective

The working distance of 40x objective can be up to 1.5mm, avoiding the erosion from residual immersion oil and water when converted from 100x to 40x objective.



Intelligent Operating System

Coded Nosepiece

It can memorize the illumination brightness when using each objective. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



Multiple functions is achievable by simply using a dimming knob

- One Click: Enter standby status
- Double Clicks: Light lock or unlock
- Rotation: Adjust brightness
- Press + Up-spin: Switch to the upper light source
- Press + Down-spin: Switch to the under light source
- Press 3 seconds: Set the time of turning off the light after leaving



The display of microscope use state

The LCD on the front of the microscope can display the using status of the microscope, including magnification, light intensity, sleepy model, and so on.



Start & working mode



Lock mode



ECO mode



Sleep mode

This is an unbounded microscope

Green has the multifunctional digital head, the user does not have to be confined in front of the microscope. Instead, it can be used for mobile microscope teaching and outdoor field observation through mobile terminals and external mobile power. The objective, eyepiece, and observation tube are effectively anti-mold treated, so you can ensure a consistently clear image and extend the life of the microscope, even when working in hot and humid environments.

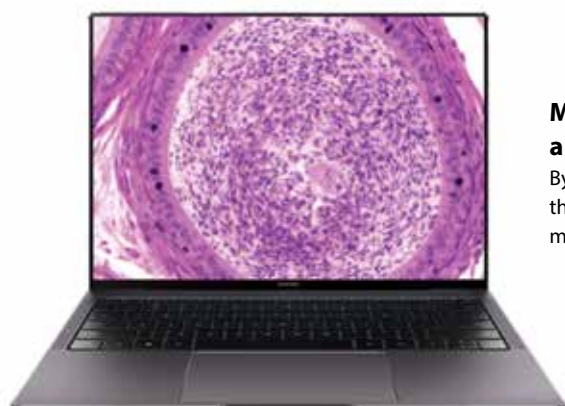


Multifunctional Digital Head

Built-in camera, supporting Android, IOS, Windows operating system, wired and Wifi modes. The image under the microscope can be output to the external device in real time, and there is no data line connection, and the operator can move more freely.

Professional microscopic imaging software

Microscopic imaging observation, analysis and processing can be performed on external devices, including photographing, measurement, image adjustment, storage, synthesis, etc.



Mobile devices perform image browsing and processing by scanning code

By scanning the QR code on the microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.



External rechargeable battery

A USB charging port is reserved on the body, which can be used as a microscope power source. This microscope can also be used outside and during power outages to get rid of the microscope's dependence on the power outlet.



Easier to store & transport

The microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, and is also lightweight and stable. The microscope back plate is designed with a hub device to effectively store the long power cord, improve the cleanliness of the laboratory, and reduce the tripping accident caused by the long power cord during the carrying process. The wooden storage box is an optional accessory that is very convenient for storage and carrying.



Handhold

Cable Storage

Ergonomic Design

In daily scientific research teaching and pathological diagnosis, working in front of the microscope for a long time has become the norm, and the consequent use fatigue often leads to physical discomfort, thereby reducing work efficiency and effectiveness. This Green microscope uses an ergonomic design, high eye-point, low-hand focus mechanism, low-hand stage and other ergonomic designs to ensure the user can perform microscope operation in the most comfortable situation. The focus knob, illumination control knob and stage handle are all in close proximity. The user can put both hands on the table while working, and can operate Green with minimal movement.



Objective

NIS45 Series Infinite Plan Objective	4x	0.10	0.17	20.6
	10x	0.25	0.17	18.0
	40x	0.65	0.17	1.50
	100x (Oil)	1.25	0.17	0.20
	100x (Water)	1.10	0.17	0.16
NIS45 Series Infinite Phase Contrast Objective	10x	0.10	0.17	18.0
	20x	0.40	0.17	6.40
	40x	0.65	0.17	1.50
	100x	1.25	0.17	0.16



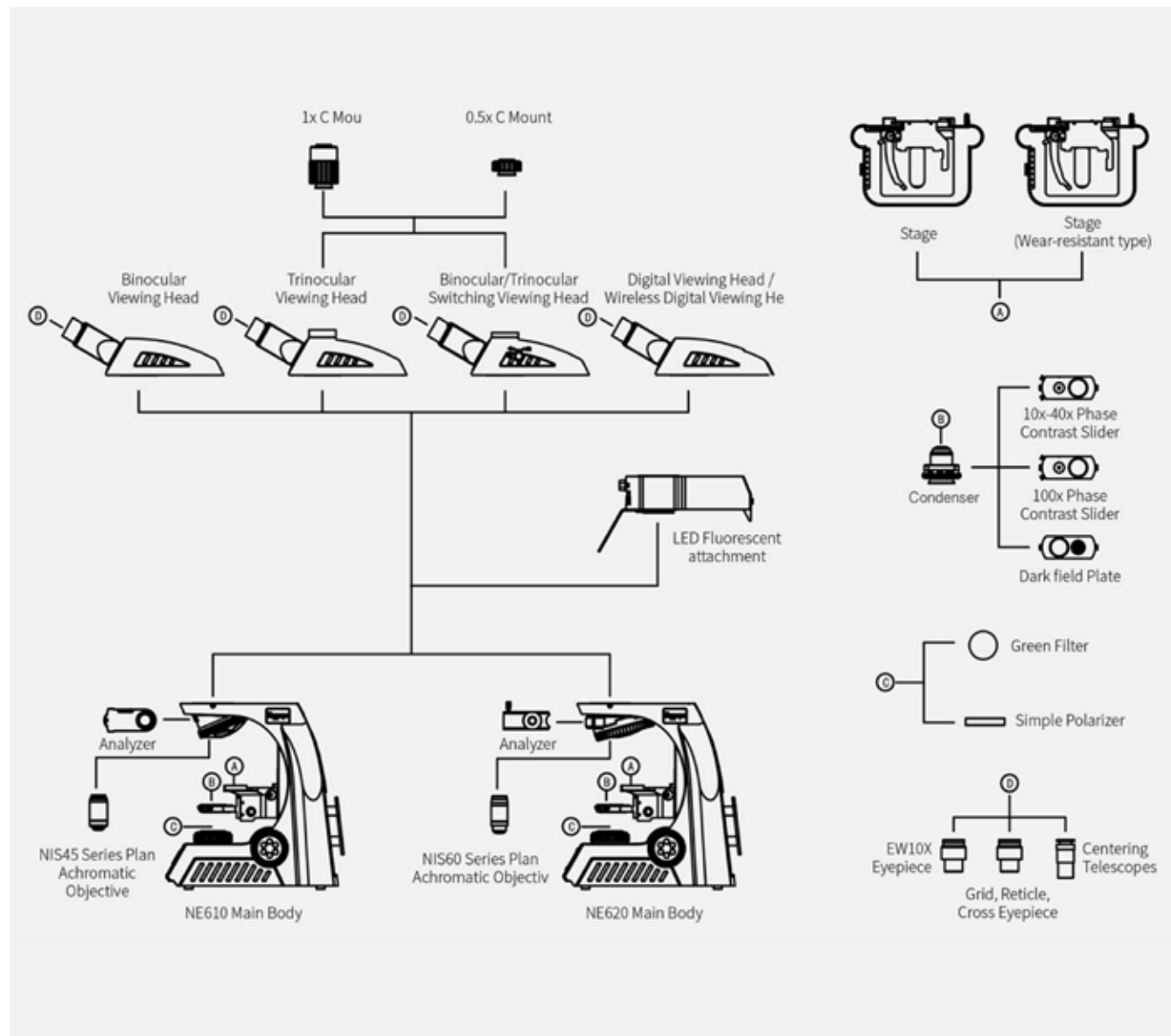
100x water immersion objectives

Two 100x water immersion objectives are available: suitable for all brands of microscopes, for a wide range of applications:

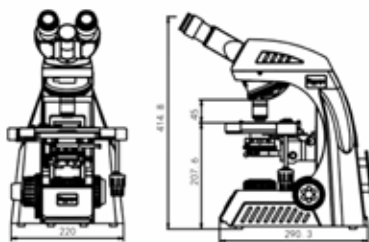
- 1). Left one: 100x NA=1.1 WD=0.2, aluminum color, parfocal distance 45, objective thread 4/5»
- 2). Right one: 100x NA=1.1 WD=0.2, aluminum black shell, parfocal distance 60, objective lens M25



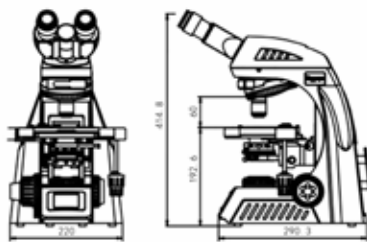
ESB-500 Series System Diagram



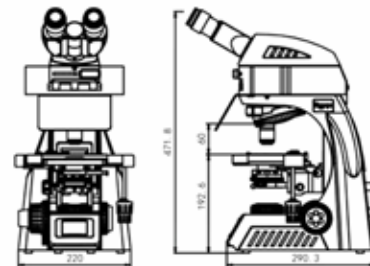
ESB510



ESB520



ESB520F



ESB-500 Series' Models and Specifications

Model	Descriptions	ESB510B	ESB520B	ESB520FE
Optical System	Infinity Optical System	•	•	•
Viewing Head	Seidentopf Binocular Head, Inclined at 45°, Interpupillary 47-78mm, 360° Rotation	•	•	•
	Seidentopf Trinocular Viewing Head, Inclined at 30°, Interpupillary 47-78mm, Splitting ratio 5:5	○	○	○
	Wireless Digital Head with Built-in 5 Million Pixels	○	○	○
	Inclinable Binocular Viewing Head	-	○	○
Eyeiece	Wide field eyepiece WF10x/22mm	••	••	••
Nosepiece	Backward Quintuple Nosepiece (Non-coding)	•	-	-
	Backward Quintuple Nosepiece (Coding)	-	•	•
Objective	NIS45 Infinite Plan Objective 4x	•	-	-
	NIS45 Infinite Plan Objective 10x	•	-	-
	NIS45 Infinite Plan Objective 20x	○	-	-
	NIS45 Infinite Plan Objective 40x (S)	•	-	-
	NIS45 Infinite Plan Objective 60x (S)	○	-	-
	NIS45 Infinite Plan Objective 100x (S, Oil)	•	-	-
	NIS45 Infinite Plan Objective 100x (S, Water)	○	-	-
	NIS60 Infinite Plan Objective 4x	-	•	•
	NIS60 Infinite Plan Objective 10x	-	•	•
	NIS60 Infinite Plan Objective 20x	-	○	○
	NIS60 Infinite Plan Objective 40x (S)	-	•	•
	NIS60 Infinite Plan Objective 60x (S)	-	○	○
	NIS60 Infinite Plan Objective 100x (S, Oil)	-	•	•
	NIS60 Infinite Plan Objective 100x (S, Water)	-	○	○
Stage	Synchronous belt stage 230x150mm, moving range 78x54mm	•	•	•
Focusing System	Coaxial coarse & fine adjustment, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, fine division 0.002mm, moving range 30mm	•	•	•
Condenser	NA 1.25 inserted abbe condenser (including empty plate for bright filed)	•	•	•
	Brightfield / Phase contrast plate (4x-100x universal)		○	○
	Brightfield / Dark field plate	○	○	○
Illumination	1W S-LED illumination for long life, brightness adjustable	•	-	-
	3W S-LED illumination for long life, brightness adjustable (LCD display magnification, timing sleep, brightness indication and lock, etc.)	-	•	•
Fluorescence Attachment	The 3-positions slider fluorescence attachments (2 positions for fluorescence cubes and 1 position for bright field) are supplied with 3W LED light source for broad powerful light spectrum. Supplied with standard fluorescence filters sets for blue and green excitation and a UV protection shield	○	○	•
	Blue Cube: Excitation: BP460-490, Dichroic Mirror DM: 505, Barrier Filter: BA515	○	○	•
	Green Cube: Excitation: BP510-550, Dichroic Mirror DM: 570, Barrier Filter: BA590 (optional)	○	○	•
	Ultraviolet excitation cube, excitation: BP330-385, dichroic mirror: DM400, barrier filter: BA420	○	○	○
	Violet excitation cube, excitation: BP400-410, dichroic mirror, DM455, barrier filter: BA455	○	○	○
Accessories	1x video attachment	○	○	○
	0.5x video attachment	○	○	○
	Simple polarization set	○	○	○
	Digital Camera (please refer to digital camera brochures)	○	○	○
	App software	○	○	○
Supplied with	Dust cover, spare fuse, green filter	•	•	•



Option Accessories List

Order No.	Descriptions	Order No.	Descriptions
M11261001	Siedentop Binocular Head, Inclined at 45°, Interpapillary 47-78mm, 360. Rotation	M11261032	NIS60 Series Infinite Phase Contrast Objective 20x
M11261002	Siedentop Trinocular Viewing Head, Inclined at 30°, Interpapillary 47-78mm, Splitting ratio 5:5	M11261033	NIS60 Series Infinite Phase Contrast Objective 40x
M11261003	Binocular Switching Viewing Head	M11261034	NIS60 Series Infinite Phase Contrast Objective 100x
M11261004	Trinocular Switching Viewing Head	M11261035	S-LED Illumination replacement unit for BE510
M11261005	Wireless Digital Head with Built-in 5 Million Pixels	M11261036	3W-LED illumination replacement unit for BE520
M11261006	DP1 display, 5M pixels, 9.7" LCD monitor (used for Trinocular head)	M11261037	Kohler Attachment
M11261007	Ergonomic 5 to 35° Inclinal Binocular Viewing Head	M11261038	Swing-out condenser N.A.0.9/0.25 (needed to work with 2x objective)
M11261008	Photo attachment with standard Ø 23.2 mm tube for digital camera use	M11261039	Dark Field Plate (One annulus is for dark field observation, and one is for bright field observation)
M11261009	EW10x/22 mm eyepiece	M11261040	Infinity plan objective 100x used for oil dark field condenser
M11261010	WF15x/16 mm eyepiece	M11261041	Infinity plan objective 100x with iris diaphragm for oil dark field condenser
M11261011	WF20x/12 mm eyepiece	M11261042	10x-40x phase contrast slider
M11261012	Grid for eyepiece	M11261043	100x phase contrast slider
M11261013	Reticle for eyepiece	M11261044	Centering Telescope
M11261014	Corssline for eyepiece	M11261045	Green filter
M11261015	Backward Quintuple Nosepiece (Non-coding)	M11261046	Simple Polarization Set: Polarizer & Analyzer
M11261016	Backward Quintuple Nosepiece (Coding)	M11261047	Synchronous belt stage 230x150mm, moving range 78x54mm
M11261017	NIS45 Infinite Plan Objective 4x	M11261048	Synchronous belt stage 230x150mm, moving range 78x54mm (Wear-resistant Type)
M11261018	NIS45 Infinite Plan Objective 10x	M11261049	Temperature Control System: 5W LED Illumination, Temperature Controlling Range: Room Temperature to 50°C
M11261019	NIS45 Infinite Plan Objective 40x (S)	M11261050	"FE-2" LED Epi-fluorescent Attachment
M11261020	NIS45 Infinite Plan Objective 100x (S, Oil)		-FL-LED Epi-fluorescent illumination device
M11261021	NIS45 Infinite Plan Objective 100X (S, Water)		Blue Cube: Excitation: BP460-490, Dichroic Mirror DM: 505, Barrier Filter: BA515
M11261022	NIS60 Infinite Plan Objective 4x		-Green Cube: Excitation: BP510-550, Dichroic Mirror DM: 570, Barrier Filter: BA590
M11261023	NIS60 Infinite Plan Objective 10x	M11261051	1X C mount
M11261024	NIS60 Infinite Plan Objective 40x (S)	M11261052	0.5X C mount
M11261025	NIS60 Infinite Plan Objective 100x (S, Oil)	M11261053	Universal SLR-adapter with built-in 2x lens for standard 23.2mm tube (work with T2 adapter)
M11261026	NIS60 Infinite Plan Objective 100X (S, Water)	M11261054	T2 ring for Nikon D SLR-digital camera
M11261027	NIS45 Series Infinite Phase Contrast Objective 10x	M11261055	T2 ring for canon EOS SLR-digital camera
M11261028	NIS45 Series Infinite Phase Contrast Objective 20x	M11261056	Micrometric stage slide, 26x76mm, the scale 1mm/100div. for biological
M11261029	NIS45 Series Infinite Phase Contrast Objective 40x	M11261057	Lens cleaning paper, 100 sheets per pack
M11261030	NIS45 Series Infinite Phase Contrast Objective 100x	M11261058	Digital Camera (Please refer to digital cameras sheet)
M11261031	NIS60 Series Infinite Phase Contrast Objective 10x		





LED Fluorescent Biological Microscope

Biological Microscope (with B&G filter, 0.5X C-mount)

- Optical system: Color Corrected Infinity System (CCIS)
- Viewing head: Siedentop Trinocular viewing head inclined at 30°, interpapillary 48-76mm, 360° rotatable, Trinocular light distribution: 100:0/20:80
- Eyepiece: A pair of wide field WF10X/22mm, high eye point, with ± 5 diopter adjustment, eyepiece tube diameter is 30mm
- Nosepiece: Reversed quintuple ball bearings revolving nosepiece
- Objectives:
 - All with anti-fungus treatment.
 - Infinite plan achromatic objective 4x/0.10, WD: 12.10mm
 - Infinite plan achromatic objective 10x/0.25, WD: 4.64mm
 - Infinite plan achromatic objective 20x/0.40, WD: 2.41mm
 - Infinite plan achromatic objective 40x/0.65, spring loaded, WD: 0.65mm
 - Infinite plan achromatic objective 100x/1.25, spring loaded, oil, WD: 0.12mm
- Stage: Reckless (integrated) mechanical stage with two-slide holder, with integrated coaxial stage control in low position
- with tension adjustment stage size: 182x140mm, 77x52mm X-Y movement range. With double slide holder. Vernier scale on the two axes, accuracy: 0.1mm
- Focusing: Integrated design, coaxial focus & fine focusing system with upper limited and tension adjustment, fine focus
- accuracy: 2 μ m fine stroke, travel range: 22mm provided with an adjustable tightness device to prevent slipping and a mechanical upper limit device
- Condenser: Swing-out N.A.0.9/0.13, iris diaphragm
- Illumination: Transmitted Koehler illumination, 6 V/30W Halogen koehler illumination, wide voltage 100-240V, field diaphragm
- Filter: Dia. 45mm blue filter, green filter & yellow filter
- Fluorescent attachment: LED Epi-Fluorescent Attachment, equipped with a rotating disc. Supplied with 5W LED Fluorescent Built in Medical device single band, Chroma filter 450 455nm, Ultraviolet protection barrier
- Fluorescence Free Oil Mercury lamp (Optional)
- Video apater: 0.5X C-mount (focus adjustable, used for microscope camera)
- Power: Multi-plug 100-240Vac, 50/60Hz external power supply
- Others: Dust cover, power cord, blue filter, Allen key, immersion oil (5ml), spare fuse, thumb screws
- 1 carton/set, Packing Size: 755mmx340mmx440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs

Binocular Head **ESB52757**

Trinocular Head **ESB52757T**



E SEARCH Series Advanced Life Science Microscopes

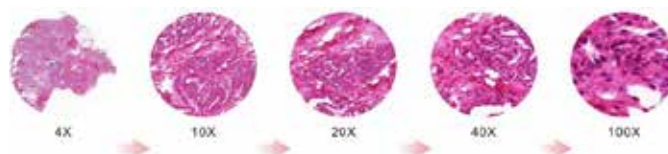
Model: E SEARCH-Bio

Optical System	NIS60 Infinite optical system
Viewing Head	Siedentop Trinocular with 30° inclined tubes Interpapillary distance adjustable between 47 and 78mm, 3-Position beam splitter (100:0/80:20/0:100) diopter adjustment on both eyepieces
Eyeiece	Super wide field SW10x/25 mm eyepiece, Ø30mm tube
Objective	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 30 mm Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 10.2 mm Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm Plan achromatic infinity corrected objective, NIS60 Plan S40x/0.65, working distance 0.7 mm Plan achromatic infinity corrected objective, NIS60 Plan S100x/1.25 oil immersion, working distance 0.2 mm
Nosepiece	Revolving sextuple reversed nosepiece on ball-bearings
Stage	Double layer mechanical stage 190x152/78x32mm with Gorilla glass insert, with right handle
Focusing	CCoaxial focusing system with low-postion X-Y coaxial control knob, the ergonomic design provides operators comfortable experience, fine division 1um, moving range 35mm
Condenser	Abbe condenser 0.9/0.25 with swing-out front lens 24V/100W halogen lamp
Illumination	The unique sensor is developed to avoid unnecessary loss of energy.
ECO Function	The illumination of the microscope automatically switches off after users step away from their position for 30 minutes.



Model: E SCIENCE-Abio

Optical System	NIS60 Infinite optical system
Viewing Head	Siedentop Trinocular with 30° inclined tubes Interpapillary distance adjustable between 47 and 78mm, 3-Position beam splitter (100:0/80:20/0:100) diopter adjustment on both eyepieces
Eyeiece	Super wide field SW10x/25 mm eyepiece, Ø30mm tube
Objective	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 30 mm Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 10.2 mm Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm Plan achromatic infinity corrected objective, NIS60 Plan S40x/0.65, working distance 0.7 mm
Nosepiece	Plan achromatic infinity corrected objective, NIS60 Plan S100x/1.25 oil immersion, working distance
Stage	0.2 mm Revolving sextuple reversed nosepiece on ball-bearings Double layer mechanical stage 190x152/78x32mm with Gorilla glass insert, with right handle
Focusing	Coaxial focusing system with low-postion X-Y coaxial control knob, the ergonomic design provides operator
Condenser	comfortable experience, fine division 1um, moving range 35mm
Illumination	Motorized Abbe condenser 0.9/0.25 with swing-out front lens 24V/100W halogen lamp lens 24V/100W halogen lamp
ECO Function	The unique sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope
Light Management	automatically switches off after users step away from their position for 30 minutes. No need to adjustable the light intensity by hand when switch the objectives. The long-life lamp can keep
Remote Control Pad	Objective could be switched by simply pressing the rotating buttons. User could also self-define two of the most commonly used objectives. User could swap between these two objectives by pressing the green button



The management system can automatically adjust to the suitable light intensity according to the different setup of objectives from the low to high magnifications, and reduce the eye fatigue at the same time.

The long-life LED lamp can keep the light intensity and easy for maintenance.



E SEARCH Series Advanced Life Science Microscopes

Product Comparison Table

Model		E SEARCH-Bio	E SEARCH-Abio
Optical System	NIS60 Infinite optical system	f	f
Eyepiece	Super wide field SW10x/25 mm eyepiece, Ø30mm tube	2pcs	2pcs
	Extra wide field EW10x/22mm eyepiece, Ø30mm tube	oo	oo
	Wide field WF 12.5x/17.5mm eyepiece, Ø30mm tube	oo	oo
	Wide field WF 15x/16mm eyepiece, Ø30mm tube	oo	oo
	Wide field WF 20x/12mm eyepiece, Ø30mm tube	oo	oo
Viewing Head	Siedentop Trinocular with 30° inclined tubes Interpupillary distance adjustable between 47 and 78mm, 3-Position beamsplitter (100:0/80:20/0:100) diopter adjustment on both eyepieces	f	f
	Siedentopf binocular with 30° inclined tubes Interpupillary distance adjustable between 47 and 78mm, diopter adjustment on both eyepieces	o	o
	Ergo tilting Trinocular head, eye tube can be adjustable from 0° to 35°, interpupillary distance 47-78mm, Trinocular tube can be connected to SLR camera and digital camera, having a 3-position beam splitter (0:100, 100:0, 80:20), the splitter bar can be assembled on the either side according to user's requirement.	o	o
	Plan achromatic infinity corrected objective	o	o
	Plan Semi-Apochromatic infinity corrected objective	o	o
Plan achromatic infinity corrected objective	NIS60 Plan 2x/0.06, working distance 7.5 mm	o	o
	NIS60 Plan 4x/0.10, working distance 30 mm	f	f
	NIS60 Plan 10x/0.25, working distance 10.2 mm	f	f
	NIS60 Plan 20x/0.40, working distance 12 mm	f	f
	NIS60 Plan S40x/0.65, working distance 0.7 mm	f	f
Plan Semi-Apochromatic infinity corrected objective	NIS60 Plan S60x/0.80, working distance 0.3 mm	o	o
	NIS60 Plan S100x/1.25 oil immersion, working distance 0.2 mm	f	f
	PlanF S-Apo 4x/0.13, working distance 16.5 mm	o	o
	PlanF S-Apo 10x/0.30, working distance 8.1 mm	o	o
	PlanF S-Apo 20x/0.50, working distance 2.1 mm	o	o
Plan Phase infinity corrected objective	PlanF S-Apo 40x/0.75, working distance 0.7 mm	o	o
	PlanF S-Apo 100x/1.30, oil immersion working distance 0.15 mm	o	o
	Plan 10x/0.25 Ph, working distance 10.2 mm	o	o
	Plan 20x/0.40 Ph, working distance 12 mm	o	o
	Plan 40x/0.65 Ph, working distance 0.7 mm	o	o
Nosepiece	Plan 100x/1.25 Ph, oil immersion working distance 0.2 mm	o	o
	Revolving sextuple reversed nosepiece on ball-bearings	f	
	Revolving Septuple reversed nosepiece on ball-bearings	o	
	Motor-driven sextuple reversed nosepiece		f
	Abbe condenser 0.9/0.25 with swing-out front lens	f	
Condenser	Motorized Abbe condenser 0.9/0.25 with swing-out front lens		f
	Zernike Phase contrast Abbe condenser with 4 phase annuli	o	o
	Dark-field condenser (Dry)	o	o
	Dark-field condenser (Oil)	o	o
	Rotating DIC and BF disc condenser without DIC prisms	o	o
Illumination	24V/100W halogen lamp	f	f
	3W S-LED lamp with Kohler	o	o
	10W S-LED lamp with Kohler	o	o
Stage	Double layer mechanical stage 190×152/78x32mm with Gorilla glass insert, with right handle (left handle optional)	f	f
	Double layer mechanical stage 190×152/78x54mm with Gorilla glass insert, with right handle (left handle optional)	o	o
	Double layer mechanical stage 190×152/78x32mm with sapphire crystal glass insert, with right handle (left handle optional)	o	o
	Double layer mechanical stage 190×152/78x54mm with sapphire crystal glass insert, with right handle (left handle optional)	o	o
Focusing	Coaxial focusing system with low-postion X-Y coaxial control knob, the ergonomic design provides operators comfortable experience, fine division 1um, moving range 35mm	f	f
ECO Function	The unique sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off after users step away from their position for 30 minutes.	f	f
Light intensity Management	No need to adjustable the light intensity by hand when switch the objectives. The long-life lamp can keep the light intensity and easy for maintenance	o	f
Video Attachment	1X C mount	o	o
	0.5X C mount	o	o
	0.35X C mount	o	o
	0.63X C mount	o	o
Other Accessories	Epi-fluorescent Attachment	o	o
	Polarization Kits	o	o
	Phase contrast attachment	o	o
	Dark field Attachment	o	o
	DIC Kits	o	o
	Attachment kits of multi-viewing microscopes for 2, 3, 5, 10 users	o	o
	Digital Camera	o	o



E SEARCH Series Advanced Life Science Microscopes

Optional Accessories

Cat. Number	Descriptions	Cat. Number	Descriptions
HEM271001	Siedentop Trinocular head, inclined at 30°, interpapillary distance 47-78mm	HEM271053	Compensator Slider
HEM271002	Siedentop binocular head, inclined at 30°, interpapillary distance 47-78mm	HEM271054	Optical compensator: 1° order red (1 lambda), (gypsum)
HEM271003	Ergo. tilting Trinocular head, adjustable from 0° to 35°, interpapillary distance 47-78mm	HEM271055	Optical compensator: 1/4λ quarter-wave plate (mica)
HEM271004	E SEARCH microscope's main body	HEM271056	Optical compensator: Quartz wedge
HEM271005	E SEARCH-Auto microscope's main body	HEM271057	Simple polarization kit, consisting of reflected polarizer in slider and reflected analyzer
HEM271006	Super wide field SW10x/25 mm eyepiece, Ø30mm tube	HEM271058	Option for left-handed stage with Gorilla glass
HEM271007	Super wide field SW10x/25 mm eyepiece with cross-hair, Ø30mm tube	HEM271059	Option for right-handed stage with Gorilla glass
HEM271008	Extra wide field EW10x/22mm eyepiece, Ø30mm tube with diopter adjustment	HEM271060	Option for left-handed stage with Sapphire glass.
HEM271009	Extra wide field EW10x/22mm eyepiece with cross-hair, Ø30mm tube	HEM271061	Option for right-handed stage with Sapphire glass.
HEM271010	Wide field WF 12.5x/17.5mm eyepiece, Ø30mm tube	HEM271062	Round stage for polarization microscope, diameter Φ190mm, center adjustable, 360° scale, minimum division 1°, minimum reading 6' by means of vernier scale, 45° click stop knob
HEM271011	Wide field WF 15x/16mm eyepiece, Ø30mm tube	HEM271063	Slide clips
HEM271012	Wide field WF 20x/12mm eyepiece, Ø30mm tube	HEM271064	Adapter to lower stage position
HEM271013	Super wide field SW10x POL eyepiece, Ø30mm tube	HEM271065	Sapphire glass inserted for stage
HEM271014	Reticle plate	HEM271066	Blue filter, Ø 45 mm, fits on lamphouse
HEM271015	Short eyecup for eyepiece	HEM271067	Green filter, Ø 45 mm, fits on lamphouse
HEM271016	Long eyecup for eyepiece	HEM271068	Yellow filter, Ø 45 mm, fits on lamphouse
HEM271017	Manual sextuple reversed nosepiece	HEM271069	LED illuminator replacement unit
HEM271018	Manual septuple reversed nosepiece	HEM271070	100W/24V halogen replacement bulb
HEM271019	Motor-driven sextuple reversed nosepiece	HEM271071	100W HBO mercury vapor lamp for transmitted illumination
HEM271020	Plan achromatic infinity corrected objective, NIS60 Plan 2x/0.06, working distance 7.5 mm	HEM271072	Fuses 500 mA 250 V, 10 pieces, (For E SEARCH models with LED)
HEM271021	Plan achromatic infinity corrected objective, NIS60 Plan 4x/0.10, working distance 30 mm	HEM271073	Fuses 5 A 250 V, 10 pieces (For E SEARCH models with 100 W halogen)
HEM271022	Plan achromatic infinity corrected objective, NIS60 Plan 10x/0.25, working distance 10.2 mm	HEM271074	Epi-Fluorescent Attachment: including filter block system (max. six blocks acceptable); fluorescent filter block B & G excitation filter block included; 100W GCQ ultra hi-voltage spherical mercury lamp; power supplier NFP-1, 220V/110V interchangeable, digital display and timer; protection barrier to resist the ultraviolet light; fluorescent oil.
HEM271023	Plan achromatic infinity corrected objective, NIS60 Plan 20x/0.40, working distance 12 mm		
HEM271024	Plan achromatic infinity corrected objective, NIS60 Plan 540x/0.65, working distance 0.7 mm		
HEM271025	Plan achromatic infinity corrected objective, NIS60 Plan 560x/0.80, working distance 0.3 mm		
HEM271026	Plan achromatic infinity corrected objective, NIS60 Plan 5100x/1.25 oil immersion, working distance 0.2 mm		
HEM271027	Plan achromatic infinity corrected objective 100x/1.25 oil immersion, with built-in iris diaphragm for darkfield applications, working distance 0.2 mm	HEM271075	Empty filter cube for 6-position fluorescence attachment
HEM271028	Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 4x/0.13, working distance 16.5 mm	HEM271076	Filter set for blue excitation, EX: 460-490 nm BP, DM: 500 nm, EM: 520 nm LP (needs empty filter cube)
HEM271029	Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 10x/0.30, working distance 8.1 mm	HEM271077	Filter set for green excitation, EX: 510-550 nm BP, DM: 570 nm, EM: 590 nm LP (needs empty filter cube)
HEM271030	Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 20x/0.50, working distance 2.1 mm	HEM271078	Filter set for violet excitation, EX: 400-410 nm BP, DM: 455 nm, EM: 460 nm LP (needs empty filter cube)
HEM271031	Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 40x/0.75, working distance 0.7 mm	HEM271079	Filter set for ultra-violet excitation, EX: 330-385 nm BP, DM: 400 nm, EM: 420 nm LP (needs empty filter cube)
HEM271032	Plan Semi-Apochromatic infinity corrected objective, PlanF S-Apo 100x/1.30, oil immersion, W.D.: 0.15 mm	HEM271080	Filter set for red excitation: BP620-650, Dichroic Mirror: DM660, Barrier: BA670-750 (needs empty filter cube)
HEM271033	Plan Phase infinity corrected objective, Plan 10x/0.25 Ph, working distance 10.2 mm	HEM271081	100W HBO mercury vapor lamp for reflected illumination
HEM271034	Plan Phase infinity corrected objective, Plan 20x/0.40 Ph, working distance 12 mm	HEM271082	100W power supplier NFP-1
HEM271035	Plan Phase infinity corrected objective, Plan 40x/0.65 Ph, working distance 0.7 mm	HEM271083	FL-ND6 filter
HEM271036	Plan Phase infinity corrected objective, Plan 100x/1.25 Ph, oil immersion working distance 0.2 mm	HEM271084	FL-ND25 filter
HEM271037	Abbe condenser 0.9/0.25 with swing-out front lens	HEM271085	C-mount with 1x for C-mount camera
HEM271038	Abbe condenser 0.9/0.26 with swing-out front lens (for automatic model)	HEM271086	C-mount with high resolution relay 0.50x objective for 1/2" C-mount camera
HEM271039	Zernike phase contrast set, with Plan Phase 10/20/540/5100x objectives, phase contrast condenser, telescope and green filter	HEM271087	C-mount with high resolution relay 0.35x objective for 1/3" C-mount camera
HEM271040	Zernike Phase contrast Abbe condenser with 4 phase annuli	HEM271088	C-mount with high resolution relay 0.63x objective for 2/3" C-mount camera
HEM271041	Telescope for phase contrast alignment, Ø 30 mm tube	HEM271089	Universal Ø 23.2 mm tube adapter with built-in 2x lens for SLR photo camera with APS-C sensor. T2 ring
HEM271042	Dark field condenser (Dry)	HEM271090	T2 ring for Nikon D SLR digital camera
HEM271043	Dark field condenser (Oil)	HEM271091	T2 ring for Canon EOS SLR digital camera
HEM271044	Turrent DIC condenser (rotating DIC and BF, without DIC prisms)	HEM271092	Attachment kits of multi-viewing microscopes for 5 users
HEM271045	DIC prism for turrent condenser (used with plan semi-apo 10x objective)	HEM271093	Attachment kits of multi-viewing microscopes for 2 users
HEM271046	DIC prism for turrent condenser (used with plan semi-apo 20x objective)	HEM271094	Attachment kits of multi-viewing microscopes for 2 users (face to face)
HEM271047	DIC prism for turrent condenser (used with plan semi-apo 40x objective)	HEM271095	Attachment kits of multi-viewing microscopes for 3 users
HEM271048	DIC prism for turrent condenser (used with plan semi-apo 100x objective)	HEM271096	Attachment kits of multi-viewing microscopes for 10 users
HEM271049	Slider with DIC prism for nosepiece (used with plan semi-apo 10x and 20x objectives)	HEM271097	Eyepoint regulator
HEM271050	Slider with DIC prism for nosepiece (used with plan semi-apo 40x and 100x objectives)	HEM271098	Nosepiece deckboard
HEM271051	Simple polarization kit, consisting of transmitted polarizer in slider and transmitted analyzer	HEM271099	DIC polarization filter for transmitted light
HEM271052	Bertrand lens for coroscopy observation. Swing-out type, focusable and centrabale	***	Digital Camera (Please refer to our digital camera brochure)



Fluorescent Model Available



E SEARCH Series Infinite Compound Microscope for Life Science and Research with digital Cam



Body frame :

Manual upright microscope frame for reflected and transmitted light observations, coaxial coarse and fine focus with stage up and down mechanism, focus stroke 25mm, coarse stroke 37.7mm rotation, fine stroke 100um/rotation, graduation on fine focus 1um. Refocusing limit stopper and torque adjustment on coarse focus, light manager with individual light intensity settings for all objectives in combination, with high bright LED light source and 5 position coded nosepiece (6 positions or 7 positions coded nosepieces are optional), front side mounted light control screen, external power supply 5V, 2.5a. transmitted light illuminator with koehler illumination and field number 26.5mm. Including Allen wrench and AC adapter

Optical System :

UIS Infinity Corrected Optical System

Viewing head :

Siedentop Trinocular with 30° inclined Ø 30mm tubes. Interpupillary distance 47-78mm, with diopter adjustment on both eyepieces, Trinocular port with 3-positions beam splitter (0:100/ 100:0/ 80:20)

Nosepiece :

Backward Quintuple Coding Nosepiece, which remembers the illumination brightness when using each objectives. When different objectives are switched between each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.

Eyepiece:

Wide field eyepiece WF10x/22mm, diopter adjustment +/-5, tube diameter: Ø30mm

Objectives:

Infinite Plan Achromatic Objective 4x, NA 0.10, WD: 28mm

Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 10mm

Infinite Plan Achromatic Objective 40x, NA 0.65, spring loaded, WD: 0.7mm

Infinite Plan Achromatic Objective 100x, NA 1.25, spring loaded, oil, WD: 0.18mm

Stage:

Synchronous belt platform stage 235mmx150mm, XY Moving Range 78mmx54mm, Metal clips for glass slides, hard oxidized platform surface, table surface can be replaced

Focusing: Low-hand position coarse and fine coaxial focusing mechanism, Coarse Stroke 37.7mm per Rotation, Fine division 0.001mm, Fine Stroke 100um per Rotation, focus stroke 25mm, With adjusting elastic device and upper limit, with platform up and down adjustment mechanism, the height of the stage bracket

group is adjustable

Condenser:

Abbe 0.9/1.25 condenser with adjustable height «Full-Köhler» type for bright field

Illumination:

High bright LED module with Full-Köhler illumination, color temperature and brightness adjustable. Matrix lens for uniform field illumination. The brightness of the entire field of view is uniform. The color temperature can be adjusted to the lighting effects as LED illumination or halogen illumination according to the user needs. Identify and display the band on the LCD screen.

LCD Screen:

The LCD screen on the front of the microscope displays the use status of the microscope, including magnification, light intensity, standby status, lock etc.

ECO function:

The ECO function is able to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step

away from their position for some time (the time can be pre-set as user need)

Supplied with:

Dust cover, spare fuse, green filter, manual, immersion oil

Power: 100-240V, 50/60Hz

C mount:

C mount adapter with 0.5x lense for digital camera

Digital camera

UNISON-6PB Color CMOS Digital camera, 6.4MP, USB3.1, sensor: 1/1.8» CMOS, not cooling, pixel: 2.4x2.4um, FPS/

Resolution: 59@3072x2048, 59@1536x1024,

binning: 1x1, 2x2, exposure time: 0.02ms-15s, with image process software, suitable for various operation system

ESB-ES580



ESB HB-1 Series Biological Microscopes

Model		HB1+5MP
Viewing Head	Monocular Head, 30° Inclined, 360° Rotatable	•
	Siedentop Binocular Head, Inclined at 30°, Interpapillary 55-75mm	
	Siedentop Trinocular Head, Inclined at 30°, Interpapillary 55-75mm	
	Dual Observation Head, One Tube 30° Inclined And Another Tube Vertical, 360° Rotatable	
	Digital Siedentop Binocular Head with integrated 5mp camera, Inclined at 30°, Interpapillary 55-75mm	
Eyepiece	Wide Field Eyepiece WF10X/18	••
	Wide Field Eyepiece WF16X/11	○○
Objective	Achromatic Objective	4X •
		10X •
		40X •
		100X ○
	Plan Achromatic Objective	4X ○
		10X ○
		40X ○
		100X ○



Model		HB1+5MP
Nosepiece	Quadruple Nosepiece	•
Stage	Double Layers Mechanical Stage 125X125mm/60x40mm	•
Condenser	NA 1.25 Abbe Condenser with Iris Diaphragm	•
Focusing System	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 14mm	•
Illumination	Built-in Adjustable Brightness LED 1W	•
Accessories	Video Adapter	C Mount ○
	Filter	Blue Filter •
		Green Filter •
Digital Camera	Series	USB2.0 Digital Camera
	Resolution	5MP
	Sensor size	1/2.5"
	Maximum resolution	2592*1944
	Pixel size	2.2*2.2μm
	Color	Color
	Target size	1/2.5"
	Exposure mode	Rolling shutter
	Signal to noise	35dB
	Dynamic range	64dB
	Sensitivity	2V/Lux.S
	Frame rateMJPG	2592*1944@25FPS •
		1920*1080@60FPS
		1280*720@60FPS
		640*480@60FPS
	Frame rateYUV422	2592*1944@25FPS
		1920*1080@60FPS
		1280*720@60FPS
		640*480@60FPS
	Image output	USB3.0 UVC
	Hardware interface	USB3.0 B
	Working temperature	Environment temperature-20°C ~ 70°C
	Storage temperature	-40°C ~ 85°C

Remark: "•"=Included with delivery "○"=Option





Infinite Biological ESB-2100T with KOTI- 5ADigital Camera

Optical system: Infinity corrected optical system

Viewing head: Siedentop Trinocular viewing head inclined at 30 °, interpapillary 47- 75mm, 360 ° rotation

Eyepiece: Apair of WF10x/20mm eyepiece

Nosepiece: Reversed quadruple ball bearings revolving nosepiece

Objectives:

All with ant-i fungus treatment.

Infinite semi- plan achromatic objective 4x/0.10

Infinite semi- plan achromatic objective 10x/0.25

Infinite semi-plan achromatic objective 40x/0.65, spring loaded Infinite semi- plan achromatic objective 100x/1.25, spring loaded, oil

Stage : Double layer mechanical stage, with size: 140x140mm, 75x50mm X- Y movement range. Vernier scale on the two axes, accuracy: 0.1mm

Focusing: Integrated design, coaxial focus system with upper limited and tension adjustment, coarse stroke 37.7mm per rotation, fine precision: 0.002mm fine stroke 0.2mm per rotation, moving range: 25mm, provided with an adjustable tightness device to prevent slipping and mechanical upper limit device

Condenser: Sliding- in center able abbe condenser 1.25 NA with objective position scales

Illumination: High brightness energy- saving S-LED illumination for long life, brightness adjustable

Power: Multi-plug 100 -240Vac, 50/60Hz external power supply

Others: Dust cover, spare fuse, blue & green filters, slim and easy to carry, support to reduce the fatigue during use, with carrying handle

Digital camera:

KOTI- 5ADigital camera,USB2.0, CMOS, sensor: 5.1M/AR0521(C), 1/2.5 "(5.70x4.28), pixel size: 2.2x2.2um, FPS/Resolution: 30@2592x1944, 30@1280x960, 30@640x480, exposure time: 0.1- 1000ms, Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit)OS X (Mac OSX), Linux with image process software9.0 software.

ESB-2100T

Infinite Biological ESB-2100NTwith KOTI -5A Digital Camera

Optical system: Infinity corrected optical system

Viewing head: Siedentop Trinocular viewing head inclined at 30 °, interpapillary 47- 75mm, 360 ° rotation

Eyepiece: Apair of WF10x/20mm eyepiece

Nosepiece: Reversed quadruple ball bearings revolving nosepiece

Objectives:

All with ant-i fungus treatment.

Infinite plan achromatic objective4x/0.10

Infinite plan achromatic objective10x/0.25

Infinite plan achromatic objective40x/0.65, spring loaded

Infinite plan achromatic objective100x/1.25, spring loaded, oil

Stage : Double layer mechanical stage, with size: 140x140mm, 75x50mm X- Y movement range.

Vernier scale on the two axes, accuracy: 0.1mm

Focusing: Integrated design, coaxial focus system with upper limited and tension adjustment, coarse stroke 37.7mm per rotation, fine precision: 0.002mm fine stroke 0.2mm per rotation, moving range: 25mm, provided with an adjustable tightness device to prevent slipping and mechanical upper limit device

Condenser: Sliding- in center able abbe condenser 1.25 NA with objective position scales

Illumination: High brightness energy- saving S-LED illumination for long life, brightness adjustable

Power :Multi-plug 100 -240Vac, 50/60Hz external power supply

Others :Dust cover, spare fuse, blue & green filters, slim and easy to carry, support to reduce the fatigue during use, with carrying handle

Digital camera:

KOTI- 5ADigital camera,USB2.0, CMOS, sensor: 5.1M/AR0521(C), 1/2.5 "(5.70x4.28), pixel size: 2.2x2.2um, FPS/Resolution: 30@2592x1944, 30@1280x960, 30@640x480, exposure time: 0.1- 1000ms, Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit)OS X (Mac OSX), Linux with image process software



ESB-2100NT





Affordable Digital Compound Microscope

Medical and Educational Microscope

Viewing head: Siedentop binocular head, inclined at 30°, interpupillary 48-75mm, 360° rotatable

Nosepiece: Backward quadruple revolving nosepiece

Eyepiece: Wide field eyepiece WF10X/18mm

Objectives: Achromatic objective 4x/0.10 Achromatic objective 10x/0.25

Achromatic objective 40x/0.65, spring loaded

Achromatic objective 100x/1.25, spring loaded, oil

Stage: Double Layers Mechanical Stage 132X142mm, Moving Range 75X40mm

Focusing: Coaxial coarse and fine Adjustment, fine division 0.004mm, coarse stroke 37.7mm per rotation, fine stroke 0.4mm per rotation, moving range 24mm

Condenser: NA 1.20 abbe condenser with iris diaphragm and filter

Illumination: High brightness 3W LED illumination for long life, brightness adjustable

Kohler illumination (optional)

Supplied with: Dust cover, spare fuse, filters

Power: 100-240V, 50/60Hz

Dimension & G.W.: 39.5cm*26.5cm*50cm, 7kg

Immersion Oil: 5ml

Digital eyepiece: Spectral Range 380-650nm (with IR-cut Filter) White Balance Auto White Balance

Color Technique N/A

Capture/Control API : Native C/C++, C#/VB.NET, DirectShow, Twain and Lab view Recording System

Still Picture and Movie

Cooling System : Natural

Operating Environment

Operating Temperature : -10°C~ 50°C

Storage Temperature : -20~ 60°C

Operating Humidity : 30~80%RH

Storage Humidity : 10~60%RH

Power Supply : DC 5V over PC USB Port

Software Environment

Operating System: Microsoft® Windows® XP / Vista / 7 / 8 / 10 (32 & 64 bit) OSx (Mac OS X)

Linux

PC Requirements : CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 2GB or More

USB Port:USB2.0 High-speed Port Display:17" or Larger

CD-ROM

Accessories : Standard Camera Packing List

Carton L:52cm W:32cm H:33cm (50pcs, 12~17Kg/carton), not shown in the photo

Gift box L:14.5cm W:9.5cm H:6.0cm (0.15~0.16Kg/box) USB2.0 eyepiece camera

High-Speed USB2.0 A male to mini B 5-pin male gold-plated connectors cable /1.5m CD (Driver & utilities software, 8cm)

Optional Accessory C-Mount Adapter Housing:108027 (HS502)

(must be purchased separately) (Dia.23.2mm to 30.0mm Ring)/Adapter rings for 30mm eyepiece tube

(Dia.23.2mm to 30.5mm Ring)/ Adapter rings for 30.5mm eyepiece tube

(Dia.23.2mm to 31.75mm Ring)/ Adapter rings for 31.75mm eyepiece tube Calibration kit 106011/TS-M1 (X=0.01mm/100Div.);

106012/TS-M2 (X,Y=0.01mm/100Div.);

106013/TS-M7 (X=0.01mm/100Div., 0.10mm/100Div)

ESB-HB-2



Infinite Digital Compound Microscopes

ESB-38 Series LCD Microscope



Model: ESB-38LCD

Viewing head with tablet : Siedentop Trinocular head, inclined at 30°, interpupillary 47-75mm, 360° rotatable 5.0Mega Pixel CMOS Chip, support WIFI and Bluetooth, 9.7» Inch TFT Touching Screen, Output: USB2.0, HDMI,
 Operation System : Android 4.2.2, Software: Touch Scope,
 SD Card: Support, Come with Mouse
 Nosepiece: Backward quadruple revolving nosepiece
 Eyepiece : Wide field eyepiece WF10X/18mm
 Objectives:
 Achromatic objective 4x/0.10
 Achromatic objective 10x/0.25
 Achromatic objective 40x/0.65, spring loaded
 Achromatic objective 100x/1.25, spring loaded, oil
 Stage: Double layer mechanical stage 140X140mm, moving range 75X50mm
 Focusing : Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm
 Condenser : NA 1.25 abbe condenser with aperture diaphragm
 Illumination : High brightness energy-saving LED illumination for long life, brightness adjustable
 Supplied with : Dust cover, spare fuse, blue & green filters
 Power : 100-240V, 50/60Hz

ESB52777LCD

Model: ESB-BM38NLLCD

Viewing head with tablet : Siedentop Trinocular head, inclined at 30°, interpupillary 47-75mm, 360° rotatable 5.0Mega Pixel CMOS Chip, support WIFI and Bluetooth, 9.7» Inch TFT Touching Screen, Output: USB2.0, HDMI, Operation System: Android 4.2.2, Software: Touch Scope,
 SD Card: Support, Come with Mouse
 Nosepiece : Backward quadruple revolving nosepiece
 Eyepiece :Wide field eyepiece WF10X/18mm
 Objectives:
 Semi-plan achromatic objective 4x/0.10
 Semi-plan achromatic objective 10x/0.25
 Semi-plan achromatic objective 40x/0.65, spring loaded
 Semi-plan achromatic objective 100x/1.25, spring loaded, oil
 Stage : Double layer mechanical stage 140X140mm, moving range 75X50mm
 Focusing : Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm
 Condenser : NA 1.25 abbe condenser with aperture diaphragm
 Illumination : High brightness energy-saving LED illumination for long life, brightness adjustable
 Supplied with : Dust cover, spare fuse, blue & green filters
 Power : 100-240V, 50/60Hz

ESB52777NLLCD



ESB-38 Series LCD Microscope



Model: ESB-38ULCD

Viewing head with tablet Siedentop Trinocular head, inclined at 30°, interpupillary 47-75mm, 360° rotatable 5.0Mega Pixel CMOS Chip, support WIFI and Bluetooth, 9.7» Inch TFT Touching Screen, Output: USB2.0, HDMI, Operation System: Android 4.2.2, Software: Touch Scope, SD Card: Support, Come with Mouse

Nosepiece : Backward quadruple revolving nosepiece

Eyepiece :Wide field eyepiece WF10X/20mm

Objectives:

Infinite semi-plan achromatic objective 4x/0.10

Infinite semi-plan achromatic objective 10x/0.25

Infinite semi-plan achromatic objective 40x/0.65, spring loaded

Infinite semi-plan achromatic objective 100x/1.25, spring loaded, oil

Stage: Rackless double layer mechanical stage 150X140mm, moving range 75X52mm

Focusing : Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm

Condenser : NA 1.25 abbe condenser with aperture diaphragm

Illumination : High brightness energy-saving LED illumination for long life, brightness adjustable

Supplied with : Dust cover, spare fuse, blue & green filters

Power : 100-240V, 50/60Hz

ESB52777ULCD

Model: ESB-38UILCD

Viewing head with tablet : Siedentop Trinocular head, inclined at 30°, interpupillary 47-75mm, 360° rotatable 5.0Mega Pixel CMOS Chip, support WIFI and Bluetooth, 9.7» Inch TFT Touching Screen, Output: USB2.0, HDMI, Operation System: Android 4.2.2, Software: Touch Scope, SD Card: Support, Come with Mouse

Nosepiece : Backward quadruple revolving nosepiece

Eyepiece :Wide field eyepiece WF10X/20mm

Objectives:

Infinite plan achromatic objective 4x/0.10

Infinite plan achromatic objective 10x/0.25

Infinite plan achromatic objective 40x/0.65, spring loaded

Infinite plan achromatic objective 100x/1.25, spring loaded, oil

Stage: Rackless double layer mechanical stage 150X140mm, moving range 75X52mm

Focusing : Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm

Condenser : NA 1.25 abbe condenser with aperture diaphragm

Illumination : High brightness energy-saving LED illumination for long life, brightness adjustable

Supplied with : Dust cover, spare fuse, blue & green filters

Power : 100-240V, 50/60Hz

ESB52777UILCD



Optional Accessories			
Cat. Number	Descriptions	Cat. Number	Descriptions
M11220001	Infinite binocular head	M11220030	Dark Field Condenser NA0.7-0.9 (Dry)
M11220002	Infinite trinocular head	M11220031	Dark Field Condenser NA1.25-1.36 (Oil)
M11220003	Digital viewing head inclined at 30°, 3M pixels, support Wi-Fi (infinite)	M11220032	Infinity plan dark field objective 100x for oil dark field condenser
M11220004	Digital viewing head inclined at 30°, 5M pixels, support Wi-Fi (infinite)	M11220033	Infinity plan dark field objective 100x with iris diaphragm for oil dark field condenser
M11220005	LCD display for adopting with viewing head, 5M pixels, 9.7" LCD, android OS	***	Digital Camera (Please refer to our digital camera brochure)
M11220006	Eyepiece WF10x/20mm	M11220034	Sliding Phase Contrast Condenser with Plug in plate 10x, 40x (Magnification of Plug-in plate can be choose from 10x 20x, 40x, 100x as users' wish)
M11220007	Eyepiece P15x	M11220035	Turret phase contrast condenser (for phase 10x, 20x/40x, 100x)
M11220008	Eyepiece WF20x	M11220036	Infinite Phase Contrast Objective PH10x/0.25
M11220009	Eyepiece WF25x	M11220037	Infinite Phase Contrast Objective PH20x/0.40
M11220010	Reticle	M11220038	Infinite Phase Contrast Objective PH40x/0.65
M11220011	Backward quadruple revolving nosepiece	M11220039	Infinite Phase Contrast Objective PH100x/1.25
M11220012	Backward quintuple revolving nosepiece	M11220040	Phase centering telescope
M11220013	Infinite semi-plan achromatic objective 4x/0.10	M11220041	Green filter
M11220014	Infinite semi-plan achromatic objective 10x/0.25	M11220042	Simple Polarization Set: Polarizer & Analyzer
M11220015	Infinite semi-plan achromatic objective 40x/0.65, spring loaded	M11220043	Temperature control system: 5W LED illumination, temperature Controlling range: room temperature to 50°C
M11220016	Infinite semi-plan achromatic objective 100x/1.25, spring loaded, oil	M11220044	LED Epi-Fluorescent Attachment "FL-LED" LED 3W BLUE 465-475nm, including LED fluorescent filter block system; fluorescent filter block B excitation filter included.
M11220017	Infinite plan achromatic objective 4x/0.10	M11220045	BLUE (B) Filter Block (used for FL-LED): Excitation BP460-490 - Dichroic Mirror DM505 - Barrier Filter BA515
M11220018	Infinite plan achromatic objective 10x/0.25	M11220046	GREEN (G) Filter Block (used for FL-LED): Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590
M11220019	Infinite plan achromatic objective 20x/0.40	M11220047	Epi-Fluorescent Attachment "XY-Z": Including filter block system, fluorescent filter block B & G excitation filter block included; 100W HBO ultra hi-voltage spherical mercury lamp; power supplier NFP-1, 220V/110V interchangeable, digital display and timer; protection barrier to resist the ultraviolet light; fluorescent oil
M11220020	Infinite plan achromatic objective 40x/0.65, spring loaded	M11220048	B&G fluorescent block set, including two filters: (used for XY-Z) BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM500 - Barrier Filter BA520 GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590
M11220021	Infinite plan achromatic objective 60x/0.80, spring loaded	M11220049	U&V fluorescent block set, including two filters: (used for XY-Z) ULTRAVIOLET Filter Block: excitation BP330~385 - DM400 - Barrier Filter BA420 VIOLET Filter Block: excitation BP400~410 - DM455 - Barrier Filter BA455
M11220022	Infinite plan achromatic objective 100x/1.25, spring loaded, oil	M11220050	Infinite plan fluorescent objective 4x/0.13, WD 16.3mm
M11220023	Halogen Bulb (used for replacement for BM38U halogen model)	M11220051	Infinite plan fluorescent objective 10x/0.3, WD 12.4mm
M11220024	S-LED Illumination	M11220052	Infinite plan fluorescent objective 20x/0.5, WD 1.5mm
M11220025	S-LED Illumination with Recharger	M11220053	Infinite plan fluorescent objective 40x/0.75, WD 0.35mm
M11220026	Kohler Illumination	M11220054	Infinite plan fluorescent objective 100x/1.30, WD 0.13mm
M11220027	ECO Function	M11220055	1X C mount
M11220028	Plane-concave Mirror	M11220056	0.5X C mount
M11220029	N.A. 1.25 Abbe Condenser		

Product Comparison Table

*	Model	BM38L	BM38NL	BM38UL	BM38UIL
Optical system:	Finite optical system Infinite optical system	✓	✓	✓	✓
Viewing head with Tablet	Siedentop Trinocular head, inclined at 30°, interpapillary 47-75mm, 360° rotatable 5.0 Mega Pixel CMOS Chip, support WIFI and Bluetooth, 8" Inch TFT Touching Screen, Output: USB2.0, Mini, Operation System: Android 4.2.2, Software: Touch Scope, SD Card: Support, Come with Mouse	✓	✓	✓	✓
Eyepiece	WF10x/18mm eyepiece WF10x/20mm eyepiece	2pcs	2pcs	2pcs	2pcs
Nosepiece	Backward quadruple revolving nosepiece	✓	✓	✓	✓
Objectives	Achromatic objective 4x, 10x, 40x, 100x Semi-plan achromatic objective 4x, 10x, 40x, 100x Plan achromatic objective 4x, 10x, 40x, 100x Infinite achromatic objective 4x, 10x, 40x, 100x Infinite semi-plan achromatic objective 4x, 10x, 40x, 100x Infinite plan achromatic objective 4x, 10x, 40x, 100x	✓	✓	✓	✓
Stage	Double layer mechanical stage 140X140mm, moving range 75X50mm Rackless double layer mechanical stage 150X140mm, moving range 75X52mm	✓	✓	✓	✓
Focusing	Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm	✓	✓	✓	✓
Condenser	NA 1.25 abbe condenser with aperture diaphragm	✓	✓	✓	✓
Illumination	High brightness energy-saving LED illumination for long life, brightness adjustable	✓	✓	✓	✓
ECO function	The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life	○	○	○	○
Other Accessories	Simple polarization attachment, dark field kits, phase contrast attachment, epi-fluorescence Remark: "✓" means standard configuration; "○" means optional item	○	○	○	○



Product Comparison Table

	Model	ESB-38L	ESB-38NL	ESB-38UL	ESB-38UIL
Optical system:	Finite optical system Infinite optical system	✓	✓	✓	✓
Viewing head	Siedentop Trinocular head, inclined at 30°, interpupillary 47-75mm, 360° rotatable				
with Tablet	5.0Mega Pixel CMOS Chip, support WIFI and Bluetooth, 8" Inch TFT Touching Screen, Output: USB2.0, Mini, Operation System: Android 4.2.2, Software: Touch Scope, SD Card: Support, Come with Mouse	✓	✓	✓	✓
Eyepiece	WF10x/18mm eyepiece WF10x/20mm eyepiece	2pcs	2pcs	2pcs	2pcs
Nosepiece	Backward quadruple revolving nosepiece	✓	✓	✓	✓
Objectives	Achromatic objective 4x, 10x, 40x, 100x Semi-plan achromatic objective 4x, 10x, 40x, 100x Plan achromatic objective 4x, 10x, 40x, 100x Infinite achromatic objective 4x, 10x, 40x, 100x Infinite semi-plan achromatic objective 4x, 10x, 40x, 100x Infinite plan achromatic objective 4x, 10x, 40x, 100x	✓	✓		
Stage	Double layer mechanical stage 140X140mm, moving range 75X50mm Rackless double layer mechanical stage 150X140mm, moving range 75X52mm	✓	✓	✓	✓
Focusing	Coaxial coarse and fine Adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 25mm	✓	✓	✓	✓
Condenser	NA 1.25 abbe condenser with aperture diaphragm	✓	✓	✓	✓
Illumination	High brightness energy-saving LED illumination for long life, brightness adjustable	✓	✓	✓	✓
ECO function	The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life	○	○	○	○
Other	Accessories Simple polarization attachment, dark field kits, phase contrast attachment, epi-fluorescence	○	○	○	○

Optional Accessories

Cat. Number	Descriptions	Cat. Number	Descriptions
M11220001	Infinite binocular head	M11220035	Turret phase contrast condenser (for phase 10x, 20x/40x, 100x)
M11220002	Infinite Trinocular head	M11220036	Infinite Phase Contrast Objective PH10x/0.25
M11220003	Digital viewing head inclined at 30°, 3M pixels, support Wi-Fi (infinite)	M11220037	Infinite Phase Contrast Objective PH20x/0.40
M11220004	Digital viewing head inclined at 30°, 5M pixels, support Wi-Fi (infinite)	M11220038	Infinite Phase Contrast Objective PH40x/0.65
M11220005	LCD display for adopting with viewing head, 5M pixels, 9.7" LCD, android OS	M11220039	Infinite Phase Contrast Objective PH100x/1.25
M11220006	Eyepiece WF10x/20mm	M11220040	Phase centering telescope
M11220007	Eyepiece P15x	M11220041	Green filter
M11220008	Eyepiece WF20x	M11220042	Simple Polarization Set: Polarizer & Analyzer
M11220009	Eyepiece WF25x	M11220043	Temperature control system: 5W LED illumination, temperature Controlling range: room temperature to 50° C
M11220010	Reticle		
M11220011	Backward quadruple revolving nosepiece	M11220044	LED Epi-Fluorescent Attachment "FL-LED" LED 3W BLUE 465-475nm, including LED
M11220012	Backward quintuple revolving nosepiece		fluorescent filter block system; fluorescent filter block B excitation filter included.
M11220013	Infinite semi-plan achromatic objective 4x/0.10	M11220045	BLUE (B) Filter Block (used for FL-LED): Excitation BP460-490 - Dichroic Mirror DM505 -
M11220014	Infinite semi-plan achromatic objective 10x/0.25		Barrier Filter BA515
M11220015	Infinite semi-plan achromatic objective 40x/0.65, spring loaded	M11220046	GREEN (G) Filter Block (used for FL-LED): Excitation BP510~550 - Dichroic Mirror DM570-
M11220016	Infinite semi-plan achromatic objective 100x/1.25, spring loaded, oil		Barrier Filter BA590
M11220017	Infinite plan achromatic objective 4x/0.10	M11220047	Epi-Fluorescent Attachment "XY-2": Including filter block system, fluorescent filter block
M11220018	Infinite plan achromatic objective 10x/0.25		B & G excitation filter block included; 100W HBO ultra hi-voltage spherical mercury lamp;
M11220019	Infinite plan achromatic objective 20x/0.40		power supplier NFP-1, 220V/110V interchangeable, digital display and timer; protection
M11220020	Infinite plan achromatic objective 40x/0.65, spring loaded		barrier to resist the ultraviolet light; fluorescent oil
M11220021	Infinite plan achromatic objective 60x/0.80, spring loaded	M11220048	B&G fluorescent block set, including two filters: (used for XY-2)
M11220022	Infinite plan achromatic objective 100x/1.25, spring loaded, oil		BLUE Filter Block: Excitation BP460~490 - Dichroic Mirror DM500 - Barrier Filter BA520
M11220023	Halogen Bulb (used for replacement for BM38U halogen model)		GREEN Filter Block: Excitation BP510~550 - Dichroic Mirror DM570 - Barrier Filter BA590
M11220024	S-LED Illumination	M11220049	U&V fluorescent block set, including two filters: (used for XY-2)
M11220025	S-LED Illumination with Recharger		ULTRAVIOLET Filter Block: excitation BP330~385 - DM400 - Barrier Filter BA420
M11220026	Kohler Illumination		VIOLET Filter Block: excitation BP400~410 - DM455 - Barrier Filter BA455
M11220027	ECO Function	M11220050	Infinite plan fluorescent objective 4x/0.13, WD 16.3mm
M11220028	Plane-concave Mirror	M11220051	Infinite plan fluorescent objective 10x/0.3, WD 12.4mm
M11220029	N.A. 1.25 Abbe Condenser	M11220052	Infinite plan fluorescent objective 20x/0.5, WD 1.5mm
M11220030	Dark Field Condenser NA0.7-0.9 (Dry)	M11220053	Infinite plan fluorescent objective 40x/0.75, WD 0.35mm
M11220031	Dark Field Condenser NA1.25-1.36 (Oil)	M11220054	Infinite plan fluorescent objective 100x/1.30, WD 0.13mm
M11220032	Infinity plan darkfield objective 100x for oil dark field condenser	M11220055	1X C mount
M11220033	Infinity plan darkfield objective 100x with iris diaphragm for oil dark field condenser	M11220056	0.5X C mount
M11220034	Sliding Phase Contrast Condenser with Plug in plate 10x, 40x (Magnification of Plug-in plate can be choose from 10x 20x, 40x, 100x as users' wish)	***	Digital Camera (Please refer to our digital camera brochure)



Basic Series includes a wide selection of stereomicroscopes designed to satisfy every need in both teaching and amateur fields. The whole range is assembled according to the best technical standards. The optical system, thanks to its transparency, quality and depth, is at the top of its category. The series is composed of 15 models, each one designed to satisfy multiple needs.

Features

1. Interpupillary distance: 55-75mm
2. One tube with diopter adjustment: +/-5 Dio
3. Illumination: 110V or 220V/12V 10W, CE approval
4. Optional accessories:
 - (1). Inserted Objective 1X, 3X, 4X, 6X
 - (2). Rotated Objective 1X&2X, 1X&3X
 - (3). Eyepiece WF5X, WF15X, WF20X



ESB52817



ESB52821



ESB52825



ESB52828



ESB52829

Model	Illumination	Head and Body	Objective	W.D.	Eyepiece
ESB52817	No Light	Straight Viewing	2X Inserted	80MM	WF10X/20
ESB52818	Incident Light				
ESB52819	Incident/Transmitted Light				
ESB52820	No Light	Inclined Viewing Un-rotatable Body			
ESB52821	Incident Light				
ESB52822	Incident Transmitted Light				
ESB52823	No Light				
ESB52824	Incident Light				
ESB52825	Incident Transmitted Light	Inclined Viewing Body 360° rotatable	2X&4X 360° Rotated	76MM	
ESB52826	No Light				
ESB52827	Incident Light				
ESB52828	Incident Transmitted Light				
ESB52829	Incident Transmitted Light				





ESB52830



ESB52831

Specifications		ESB52830	ESB52831
Eyepiece	WF10X / Φ 20	O	O
	WF5X, WF15X, WF20X	Optional	
Working Distance/Objective	2X & 4X/ 72mm	O	O
	1X & 2X/72mm , 1X & 3X/72mm	Optional	
Auxiliary Objective	0.5X, 0.75X, 1.5X, 2X	Optional	
Illumination	No Light	O	
	Transmitted and Incident Light 110V or 220V/6V12W T-H Lamp		O

Long Working Distance Stereo Microscope



ESB52832

Specification

1. Long Arm for Microscope Body
2. Inclined Binocular Head Interpupillary Distance 55-75mm, Diopter Adjustment on Left Tube ± 5 Dio
3. Eyepiece WF 10X
4. Inserted Objective 1X
5. Working Distance of Objective 230mm
6. Illumination 110V or 220V/12V 10W Incandescent Lamp
7. Optional Accessories:
 - (1) Objective 0.5X, Working Distance 250mm
 - (2) Eyepiece WF 5X/ Φ 22, WF15X/ Φ 15, WF20X/ Φ 10

ESB52832



SUPERIOR STERIOSCOPIC MICROSCOPES

Features

- High quality, high function and excellent cost performance
- Best choose with ergonomic design, sharp image display and wide viewing field
- Providing a wide viewing field of $\Phi 20\text{mm}$ with the zoom ratio of 1:4.5
- Ideal instrument in academic, medical and industrial field



Diopter adjustable



Zoom objective 0.7 \times -3 \times / 1 \times -4.5 \times ,
Zoom ratio 1:4.3 / 1:4.5



High resolution, Wide viewing field,
Long working distance



Binocular head inclined at 45°
Interpupillary 55-75mm

Model		ESB52841
Viewing Head	Binocular head, inclined at 45°	1
	Trinocular head, inclined at 45°	
	Binocular head, inclined at 60°	
Eyepiece	Wide field eyepiece 10 \times / $\Phi 20$	2
	15 \times / 16	
	20 \times / 12	
	10 \times Eyepiece with cross hair	
Objective	Zoom objective	0.7~3 \times
		1~4.5 \times
	Auxiliary Objective	2 \times , 0.75 \times , 0.63 \times , 0.5 \times
Zoom Ratio	1:4.3	
	1:4.5	
Working Distance	97mm	
Illumination	LED Reflection Illumination	
	LED transmission Illumination	
Photo Attachment		
Video Attachment		



Stereo Microscope MS25 Series

Viewing head: Trinocular Head Inclined at 30°, Interpapillary Model: MS25B

- Viewing Heads: Binocular heads, 360° rotating and 45° inclined
 - Interpapillary distance: Adjustable between 54 and 76 mm
 - Eyepieces: WF10x/23 mm
 - Specimen stage: Fitted with a transparent disc for transmitted light with specimen
 - Objectives: 2x/4x objectives. (Any two objectives of 1x, 2x, 3x, 4x are optional)..
- Working distance: 97 mm.
- Stand: Fixed arm type with focusing mechanism.
 - Stand: FS specimen stage: Black-white Reversible Stage Plate and Frosted Glass Stage Plate
 - Focusing: Rack and opinion controlled by a pair of knobs placed on both sides of the stand
 - Illumination: Double adjustable illuminator for incident and transmitted light fitted with two high-efficiency LED light sources, brightness adjustable
 - The angle of the incident illuminator is adjustable, voltage: 110/240V AC

ESB-MS25

**Optional Accessories**

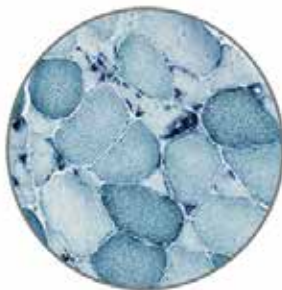
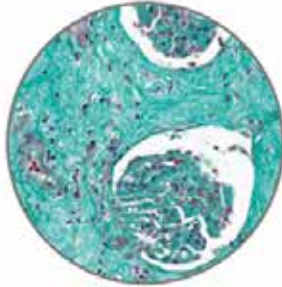
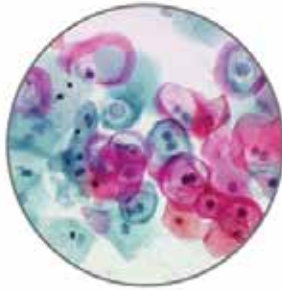
Cat. Number	Descriptions
M21041001	Binocular heads, 360° rotating and 45° inclined
M21041002	Binocular heads, 360° rotating and 60° inclined
M21041003	Trinocular heads, 360° rotating and 45° inclined
M21041004	Eyepiece WF 10x/23
M21041005	Eyepiece WF 10x/20
M21041006	Eyepiece WF 10x/22
M21041007	Eyepiece WF15x/16
M21041008	High-point Eyepiece WF20x/12
M21041009	Low-point Eyepiece WF20x/12
M21041010	Eyepiece WF30x/8
M21041011	Eyepiece WF10x with cross hair
M21041012	Objective 1x / 3x
M21041013	Objective 1x / 4x
M21041014	Objective 1x / 2x
M21041015	Objective 2x / 3x
M21041016	Objective 2x / 4x
M21041017	Eye shields
M21041018	Auxiliary lens 0.5x, WD 180mm
M21041019	Auxiliary lens 0.63x, WD 137mm
M21041020	Auxiliary lens 0.75x; WD 137mm
M21041021	Auxiliary lens 2x; WD 30mm
M21041022	1X C TV mount
M21041023	0.5X C TV mount
M21041024	LED Ring Light
M21041025	Polarization Set
M21041026	Dark field Set
M21041027	Moveable Stage
M21041028	Boom stand
M21041029	Dual arm boom stand
M21041030	Articulated Arm
M21041031	Rechargeable battery



ESB52856/7/8 Inverted Series

Comfortable and Efficient, Various Observations, Intelligent, Environmentally Friendly

MICROSCOPE EXPERT, DESIGN FOR SATISFYING USER



Microscopes



ESB52856/7/8 Series Inverted Microscopes, Designed for Satisfying Needs of Modern Laboratories, Clinics and Universities.

ESB52858 Series inverted microscope makes reasonable improvement on basis of scientific research microscope. More suitable for laboratory observation of cells.



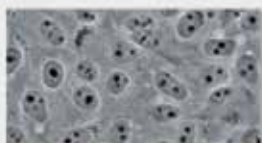
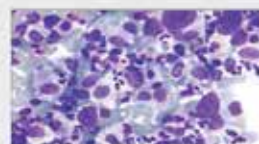
ESB52856



ESB52857



ESB52858



ROUTINE IN UNIVERSITIES, LABS & INDUSTRIES

- Adopt long life LED light source and infinity optical system, easy to obtain high-definition and high contrast wide viewing images.
- The body is compact and stable, and the operation buttons are well arranged, the cells can be observed, sampled and processed in the super clean bench freely.

THE OPTIMAL PARTNER FOR ROUTINE TASKS

- Using 3 different color filter, it widely enlarges selectivity for dye. LED illumination with large intensity and even brightness provides support for high quality fluorescence observation.
- With standard camera port, Eduscience camera and image processing software, providing low noise, high sensitivity and resolution imageity and resolution image.





Inverted Fluorescence Microscope

Viewing head: Trinocular Head Inclined at 30°, Interpupillary Distance 48-75mm

Nosepiece: 5 positions, with bidirectional rotation on ball bearings and click stop

Eyepiece: High-point, Extra Wide Field Eyepiece EW10×/22mm

LWD (Long working Distance)

Infinite Plan Objective 4×/0.1, WD 17.3mm

LWD (Long working Distance)

Infinite Plan Objective 10×/0.25, WD 10mm

LWD (Long working Distance)

Infinite Plan Objective 20×/0.4, WD 5.1mm

Infinite Plan Phase Objective PH10×/0.25, WD10mm

Infinite Plan Phase Objective PH20×/0.4, LWD5.1mm

LWD (Long working Distance) Infinite Plan Objective 40×/0.6, WD 2.1mm

Stage : Plain Stage 160×250mm, Glass Insert

Focusing : Coaxial Coarse and Fine Adjustment, Vertical Objective Movement, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation

Condenser : Long working distance condenser, numerical aperture 0.30, working distance 72 mm.

The condenser can be removed in order to increase the working distance to 150 mm

Centering: Centering Telescope (Φ30MM)

Illumination: Halogen Lamp 6V/30W

Supplied with: Dust cover, spare fuse, Diameter 45mm, Blue, Green and Ground Glass
Epi-Fluorescent Attachment: Epi-Fluorescent attachment FL-100 standard configuration

Blue Excitation Cube, Excitation: BP460-490, Dichroic Mirror: DM500, Barrier Filter: BA520
Green Excitation Cube, Excitation: BP510-550, Dichroic Mirror: DM570, Barrier Filter: BA590
100W HBO Ultra Hi-voltage Spherical Mercury Lamp

Barrier Resist the Ultraviolet Light

Power Supplier NFP-1, 220V/110V interchangeable, Digital Display Fluorescence Free Oil

ESB52856

Optional Accessories

Cat. Number	Descriptions
1	Stage: Attachable Mechanical Stage 250×230mm, Translator with lowered ergonomic coaxial controls. X-Y 120×78mm.
2	Ultraviolet Excitation Cube, Excitation: BP330~385, Dichroic Mirror: DM400, Barrier Filter: BA420
3	Violet Excitation Cube, Excitation: BP400~410, Dichroic Mirror: DM455, Barrier Filter: BA455
4	Interchangeable metallic inserts holder for Φ38mm Petri Dish
5	Interchangeable metallic inserts holder for Terasaki & petri dia.54mm
6	Interchangeable metallic inserts holder for Φ54mm Slide Glass
7	Auxiliary Stages70×180mm, Load bearing side extension for IV5100
8	Infinite Plan Phase Objective PH4×/0.13
9	Infinite Plan Phase Objective PH10×/0.25
10	Infinite Plan Phase Objective PH20×/0.4
11	Infinite Plan Phase Objective PH40×/0.65
12	Phase Annulus: 10×-20×, 40× Phase Annulus Plate
13	"Mlchrome 6" USB3.0 CMOS Digital Camera, 6MP
14	Focusable C-Mount Adapter 1X C mount



Ergonomic design, comfortable operation

45° Inclined Viewing Head

Inclined viewing head makes the user to operate microscope in a comfortable position. Minimize muscle tension and discomfort caused by long working hours.

Long-handle mechanical stage

The user can make comfortable and smooth movement during the operation, thereby improving work efficiency and comfort.



High brightness, long lifetime LED Illumination

·LED illuminator, suitable for various observation

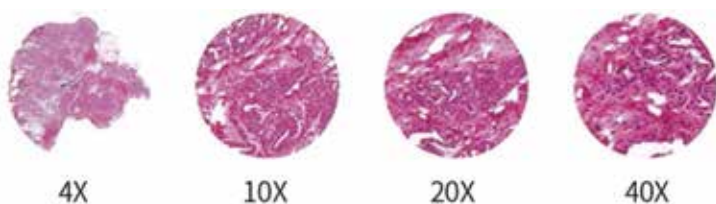
With a high brightness and long lifetime LED illumination system for both transmission and fluorescent lighting, proving even brightness and cool lighting.

Model	ESB52856/ESB52857	ESB52856FL/ESB52857FL
Transmitted	Bright field, Phase contrast, Emboss contrast	
Fluorescent	/	Epi-Fluorescence

Intelligent operating system

· Objective coding converter

It can memorize the illumination brightness when using each objective. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



· Use a dimming knob to achieve multiple functions

Click: Enter standby status Double click: light lock or unlock Rotation: Adjust brightness
Press + up-spin: Switch to the upper light source Press + down-spin: Switch to the under light source
Press 3 seconds: Set the time of turning off the light after leaving



Fluorescence Microscope ESB-ES800FL

Optical system: Infinite optical system

Viewing head: Compensation free Trinocular head inclined at 30°, 360° rotation

Interpupillary distance 48-75mm, diopter adjustment +/-5

Video adapter C mount 1X for digital camera

Eyepiece: Extra wide field eyepiece EW10x/22, eyepiece tube 30mm

Objective:

Infinite Plan Fluorescent Objective 4x

Infinite Plan Fluorescent Objective 10x

Infinite Plan Fluorescent Objective 40x

Infinite Plan Fluorescent Objective 100x

Nosepiece : Backward Quintuple Nosepiece

Focusing system : Coaxial coarse & fine adjustment

Fine division 0.001mm, coarse stroke 37.7mm per rotation Fine stroke 0.1mm per rotation, moving range 24mm

Stage: Double Layers Mechanical Stage 185x142, moving range 75x55mm

Condenser: swing-out achromatic Condenser NA 0.9/0.25

Transmitted illumination: Kohler illumination, aspherical collector, halogen lamp 6V/30W house100W

Reflected illumination : 100W HBO ultra hi-voltage spherical mercury lamp

Epi-Fluorescent Attachment: Epi-Fluorescent attachment FL-800 standard configuration

Blue Excitation Cube, Excitation: BP460 490, Dichroic Mirror: DM500, Barrier Filter: BA520

Green Excitation Cube, Excitation: BP510 550, Dichroic Mirror: DM570, Barrier Filter: BA590

Red Excitation Cube, Excitation : BP620-650, Dichroic Mirror: DM660, Barrier: BA670-750

100W HBO Ultra Hi-voltage Spherical Mercury Lamp

Barrier Resist the Ultraviolet Light

Power Supplier NFP-1, 220V/110V interchangeable, Digital Display Fluorescence Free Oil

Digital Camera: HDCE-90D, 9MP digital camera with image scope 9.0 software.

ESB52855**Optional Accessories**

Cat. Number	Descriptions	Cat. Number	Descriptions
M13161001	Digital Viewing Head Inclined at 30°, 5M pixels, 8" LCD, Android OS	M13161017	Turret Phase Contrast Kit
M13161002	Ergonomic Tilttable Binocular head 5-35° (white)	M13161018	Simple Polarization Set: Polarizer & Analyzer
M13161003	Ergonomic Tilttable Binocular head 5-35° (white) with Trinocular adapter	M13161019	Temperature Control System: 5W LED Illumination, Temperature Controlling Range: Room Temperature to 50°C
M13161004	Eyepiece WF10x with pointer	M13161020	Ultraviolet Excitation Cube, Excitation: BP330~385, Dichroic Mirror: DM400, Barrier Filter: BA420
M13161005	Eyepiece WF20x/12	M13161021	Violet Excitation Cube, Excitation: BP400~410, Dichroic Mirror: DM455, Barrier Filter: BA455
M13161006	Eyepiece WF15x/16	M13161022	Infinite Plan Fluorescent Objective 4x
M13161007	Backward Sextuple Nosepiece	M13161023	Infinite Plan Fluorescent Objective 10x
M13161008	Infinite Plan Achromatic objective 20x	M13161024	Infinite Plan Fluorescent Objective 20x
M13161009	Infinite Plan Achromatic objective 60x	M13161025	Infinite Plan Fluorescent Objective 40x
M13161010	242x158mm X-Y axis Low Hand Position Double Mechanical Stage, 76x50mm, Precision 0.1mm, Damped Double Slide Clamp	M13161026	Infinite Plan Fluorescent Objective 100x
M13161011	230x150mm X-Yaxis Low Hand Position, Graphite Coating Double Mechanical Stage, 76x50mm, Precision 0.1mm, Damped Double Slide Clamp	M13161027	Neutral Filter: ND25 Filter
M13161012	External illumination, Aspherical Collector, Halogen Lamp 24V/100W	M13161028	Centering Plate
M13161013	3W LED Illumination	M13161029	Filament Adjuster
M13161014	5W LED Illumination	M13161030	1X C mount
M13161015	Dark Field Condenser NA0.7-0.9 (Dry)	M13161031	0.5X C mount
M13161016	Dark Field Condenser NA1.25-1.36 (Oil)		



Various holders for different culture containers

Various holders are available for different culture containers, such as Petri dishes, well plates, and culture flasks. As well as available for different size Petri dishes.



Slide Glass Holder
Φ65mm



Universal Holder



Terasaki Holder



Petri Dish Holder
Φ54mm



Peteri Dish Holder
Φ90mm

Detachable condenser

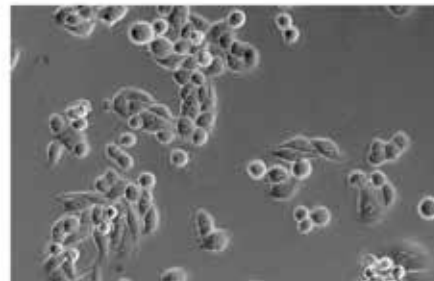
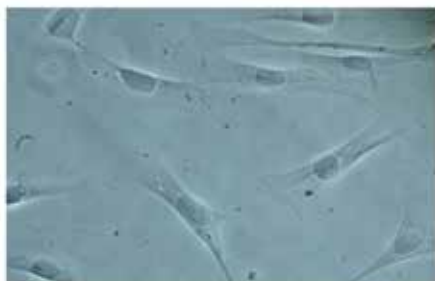
When culture flask is used, the condenser can be removed to increase working distance. It is also suitable for multilayer culture flask.



Transmission

Phase Contrast

By using changes in the refractive index, high contrast microscopic images of transparent samples can be obtained with phase contrast observation technique. The advantage is that the details of live cell imaging can be obtained without staining and fluorescent dyes. Application range: Living cells in culture, Microorganism, Tissue slide, Subcellular grains (including cell nuclei and organelles).



• The display of microscope use state

The liquid crystal screen on the front of the microscope can display the using state of the microscope, including magnification, light intensity, standby status, and so on.



Start & working mode



Lock mode



Turn off the light after leaving mode



standby mode

More convenient for cell sampling and aseptic manipulation

The microscope control mechanism is reasonable in layout and easy to operate

The frequently used control mechanisms are close to the user and in low-hand position. This kind of design makes operation more quickly and conveniently, and reduce the fatigue caused by the long observation. On the other hand, it reduces the airflow and dust caused by large amplitude operation, and it is very effective to reduce the probability of sample pollution. It is a strong guarantee for the accuracy and repeatability of the experimental results.



The body is compact, stable and suitable for clean bench

- Can be sterilized in the clean bench

On the premise of ensuring the effect of imaging, ESB52858 is with relative compact design. The volume and weight of the body is reduced as much as possible in principle of stability. The compact body is with anti-UV coating and can be placed into the clean bench for sterilization under UV lamp.

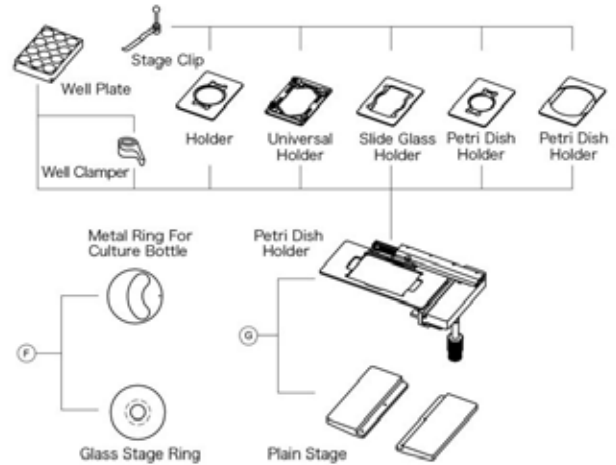
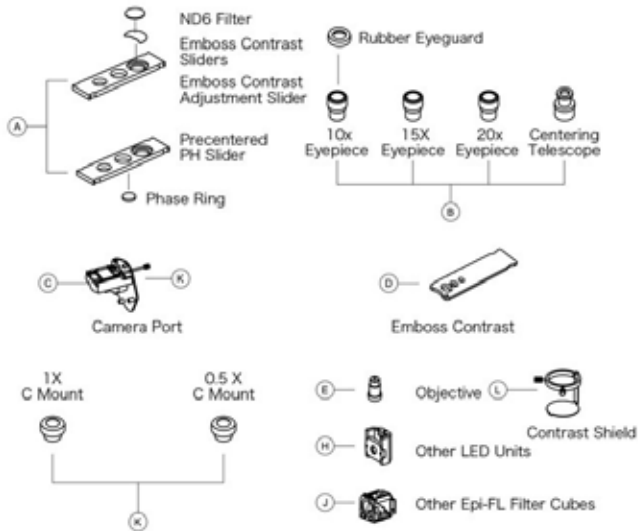
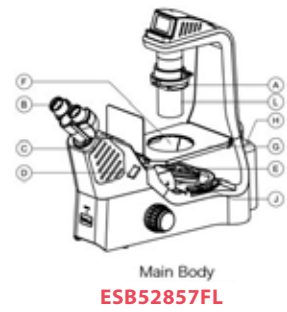
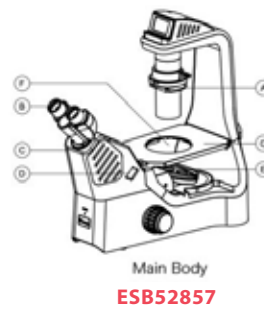


- Cell sampling and operation can be performed in clean bench

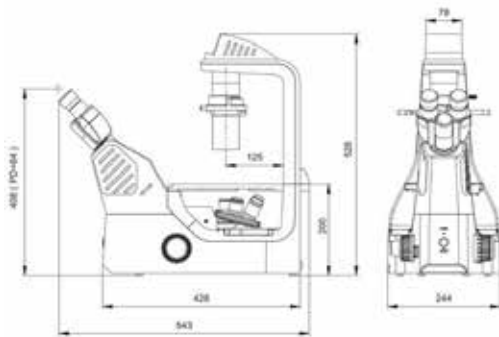
The distance between the eye point to the operation button and the focusing knob of the ESB52858 is relatively short, and the distance from the stage is far away. It is available to make the viewing head and operating mechanism outside, and stage, objectives and sample inside. So realize cell sampling and operation inside and observing comfortably outside.



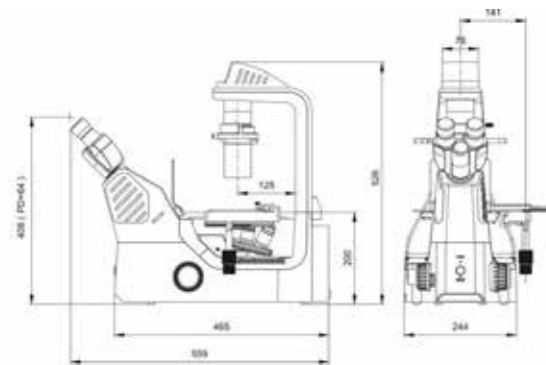
ESB8/52857 Series System Diagram



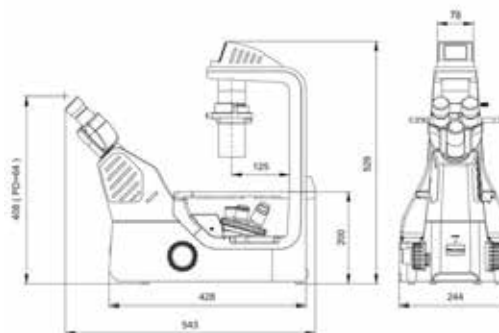
ESB8/52857 Series Dimensions Figure



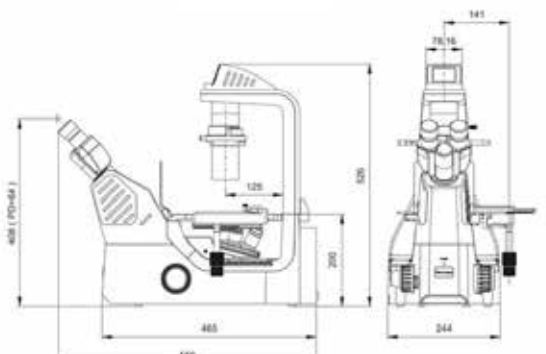
ESB52856



ESB52856FL



ESB52857



ESB52857FL

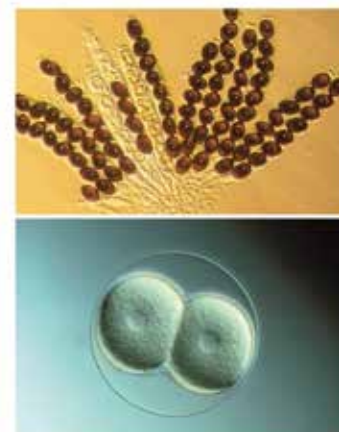


Hoffman Modulation Phase Contrast

With slant light, changing phase gradient into light intensity variety, it can be used to observe unstained cells and living cells.

3D Emboss Contrast

Even without extra optical components, no glare 3D image can be obtained just through adding adjustment slider. Both glass and plastic petri dishes are available.



Fluorescent Observation

LED light makes fluorescent observation easier

·Uniform brightness

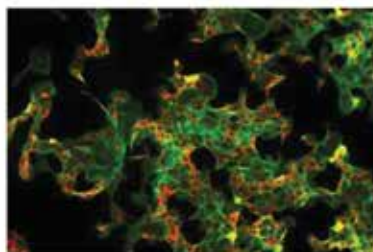
Matching with Kohler illumination, the Fly-eye lens delivers uniform brightness to the entire field of view, whether through the eyepiece or through CCD camera.

·LED Easy to use

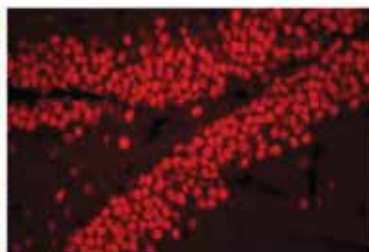
Compared with the traditional mercury bulb, the LED eliminates frequent bulb replacements, saving time and money. Also the problems of preheating, cooling and high temperature are solved.

Suitable for a variety of fluorescent dyes

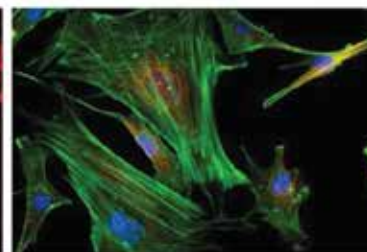
Equipped with 3 fluorescent filter blocks, it provides a wide range of choice of dyes and captures clear high contrast fluorescence images.



Breast cancer



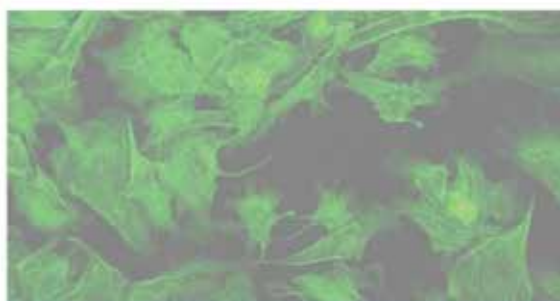
Hippocampus



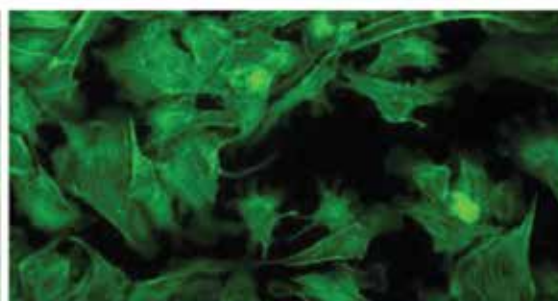
HC3T3 mouse brain nerve cells

Contrast Shield

The Contrast Shield can effectively block the interference of the external light, increase the contrast of the fluorescent image, and provide a high signal-to-noise ratio fluorescent image. When needed for phase contrast observation, the Contrast Shield is very convenient to be removed from the light path, avoiding influence on the quality of phase contrast.



Without contrast shield



With contrast shield



ESB52857/8 Series' Models and Specifications

Model		ESB52857	ESB52857 FL	ESB52858	ESB52858 FL
Optical system	Infinity optical system	•	•	•	•
Eyepiece	Extra wide field eyepiece 10x/22mm	••	••	••	••
	Wide field eyepiece 15x/16mm	oo	oo	oo	oo
	Wide field eyepiece 20x/12mm	oo	oo	oo	oo
Observation head	Seidentopf viewing head, inclined at 45°, interpupillary 48-75mm; additional camera port eyepiece /port 100/0 : 0/100n	•	•	•	•
Objective	Infinity plan objective 4x	•	o	•	o
	Infinity plan objective 10x	o	o	o	o
	Infinity plan objective 20x	o	o	o	o
	Infinity plan objective 40x	o	o	o	o
	Infinity phase contrast objective 4x	o	o	o	o
	Infinity phase contrast objective 10x	•	o	•	o
	Infinity phase contrast objective 20x	•	o	•	o
	Infinity phase contrast objective 40x	•	o	•	o
	Infinity plan semi-apochromatic objective 10x	o	•	o	•
	Infinity plan semi-apochromatic objective 20x	o	•	o	•
	Infinity plan semi-apochromatic objective 40x	o	•	o	•
	Infinity plan semi-apochromatic objective 60x	o	o	o	o
	Infinity plan semi-apochromatic contrast objective 4x	o	o	o	o
	Infinity plan semi-apochromatic contrast objective 10x	o	o	o	o
	Infinity plan semi-apochromatic contrast objective 20x	o	o	o	o
	Infinity plan semi-apochromatic contrast objective 40x	o	o	o	o
	Infinity plan semi-apochromatic contrast objective 60x	o	o	o	o
Nosepiece	Quintuple nosepiece	•	•	/	/
	Quintuple intelligent nosepiece	/	/	•	•
Focusing mechanism	Up 7mm, down 1.5mm, to limit up to 18.5mm	•	•	•	•
Centering telescope	Lens tube $\phi 30$	•	o	o	•
Stage	250x170mm	•	•	•	•
Moving stage	Y: 80mm; X: 128mm	•	•	•	•
Plain stage	Two plain stage	o	o	o	o
Condenser	NA=0.3, WD=75	•	•	•	•
Illumination	Transmitted illumination: 3W LED	•	•	•	•
	Fluorescent illumination: (B, G, U fluorescent filter) 3W LED	/	•	/	•
	Fluorescent illumination: (V fluorescent filter) 3W LED	/	o	/	o
Universal phase	4x, 10x/20x/40x (for phase contrast)	•	•	•	•
contrast slider	4x, 10x/20x, 40x, 60x (for semi- apochromatic contrast)	o	o	o	o
Emboss contrast slider		o	o	o	o
ECO		o	/	/	/
Camera mount	1x C-mount	•	•	•	•



	0.5x C-mount	o	o	o	o
LCD		/	/	•	•
Note: "•" Standard component; "o" Optional component; "/" Inapplicability					

Option Accessories List

Order No.	Descriptions	Order No.	Descriptions
M11303001	Seidentopf viewing head, inclined at 45°, interpupillary 48-75mm; additional camera port eyepiece /port 100/0 : 0/100n	M11303021	Infinity plan semi-apochromatic contrast objective 40x
		M11303022	Infinity plan semi-apochromatic contrast objective 60x
M11303002	Extra wide field eyepiece 10x/22mm	M11303023	Universal phase contrast slider 4x, 10x/20x/40x (for phase contrast)
M11303003	Wide field eyepiece 15x/16mm	M11303024	Universal phase contrast slider 4x, 10x/20x, 40x, 60x (for semi- apochromatic contrast)
M11303004	Wide field eyepiece 20x/12mm	M11303025	Centering telescope (kens tube $\phi 30$)
M11303005	Rubber Eyeguard	M11303026	Emboss contrast slider
M11303006	Infinity plan objective 4x	M11303027	Contrast shield
M11303007	Infinity plan objective 10x	M11303028	Two plain stage
M11303008	Infinity plan objective 20x	M11303029	Fluorescent illumination: (B, G, U fluorescent filter) 3W LED
M11303009	Infinity plan objective 40x	M11303030	Fluorescent illumination: (V fluorescent filter) 3W LED
M11303010	Infinity phase contrast objective 4x	M11303031	Metal Ring for culture bottle
M11303011	Infinity phase contrast objective 10x	M11303032	Glass stage ring
M11303012	Infinity phase contrast objective 20x	M11303033	Moving stage
M11303013	Infinity phase contrast objective 40x	M11303034	Holder
M11303014	Infinity plan semi-apochromatic objective 10x	M11303035	Universal holder
M11303015	Infinity plan semi-apochromatic objective 20x	M11303036	Slide glass holder
M11303016	Infinity plan semi-apochromatic objective 40x	M11303037	Petri dish holder type 1
M11303017	Infinity plan semi-apochromatic objective 60x	M11303038	Petri dish holder type 2
M11303018	Infinity plan semi-apochromatic contrast objective 4x	M11303039	Stage clip
M11303019	Infinity plan semi-apochromatic contrast objective 10x	M11303040	1X C mouont
M11303020	Infinity plan semi-apochromatic contrast objective 20x	M11303041	0.5X C mount



Infinity Metallurgical Microscopes ESB-ES800MR

Infinity Metallurgical Microscope + ESDC-90D (9MP) Digital Camera

Optical System: Infinite optical system

Viewing Head : Siedentop Trinocular viewing head, inclined at 30°, interpapillary distance 48mm-75mm

Nosepiece : Backward quintuple nosepiece

Eyepiece : Ø30 Extra wide field eyepiece EW10×/22

Objectives:

Infinite Plan Achromatic Objective 10×/ 0.25/ ∞/ – (BF/DF) WD 10.0mm,

Infinite Plan Achromatic Objective 20×/ 0.4/ ∞/ 0 (BF/DF) WD 4.3mm,

Infinite Plan Achromatic Objective 40×/ 0.65/ ∞/ 0.17 WD 0.54mm,

Infinite Plan Achromatic Objective 100×/ 1.25/ ∞/ 0.17 WD 0.13mm,

Infinite Plan Achromatic Objective 5×/ 0.12/ ∞/ – (BF/DF) WD 12mm,

Infinite Plan Achromatic Objective 50×/ 0.75/ ∞/ 0 (BF/DF) WD 0.32mm,

Infinite Plan Achromatic Objective 100×/ 0.8/ ∞/ 0 (BF/DF) WD 2mm

Maximum Sample Height: 30mm

Stage: Double layer mechanical stage 186×138mm/ 74mm×50mm, specimen preparation plate, slide glass

Focusing: Coaxial coarse and fine adjustment, fine division 1µm, moving range 30mm

Reflected Illumination: 24V/100W Halogen light, lightness adjustable Kohler illumination and aspherical condenser

Blue, Green, Yellow and Ground glass

Transmitted Light: 24V/ 100W Halogen light and aspherical condenser, blue filter

Condenser : Swing-out condenser NA0.9/0.25

ESDC-90D, 9MP Digital Camera

ESB52852


Optional Accessories

Cat. Number	Descriptions
ES402001	2.5×/ 0.08/ ∞/ – (BF) WD 11.7mm
ES402002	2.5×/ 0.08/ ∞/ – (BF) WD 10.7 (λglass side)
ES402003	40×/ 0.6/ ∞/ 0 (BF/DF) WD 2.90mm
ES402004	DIC 20×, 100×
ES402005	Polarizer and analyzer
ES402006	An integrate device foe polarizer and analyzer
ES402007	Filter ND25
ES402008	Filter ND6
ES402009	Glass specimen preparation plate
ES402010	Specimen Presser
ES402011	0.5x C mount
ES402012	1x C mount



Digital Cooling Camera Model ESFL-20

20mp USB 3.0

meets professional color fluorescence imaging needs

Microscopes

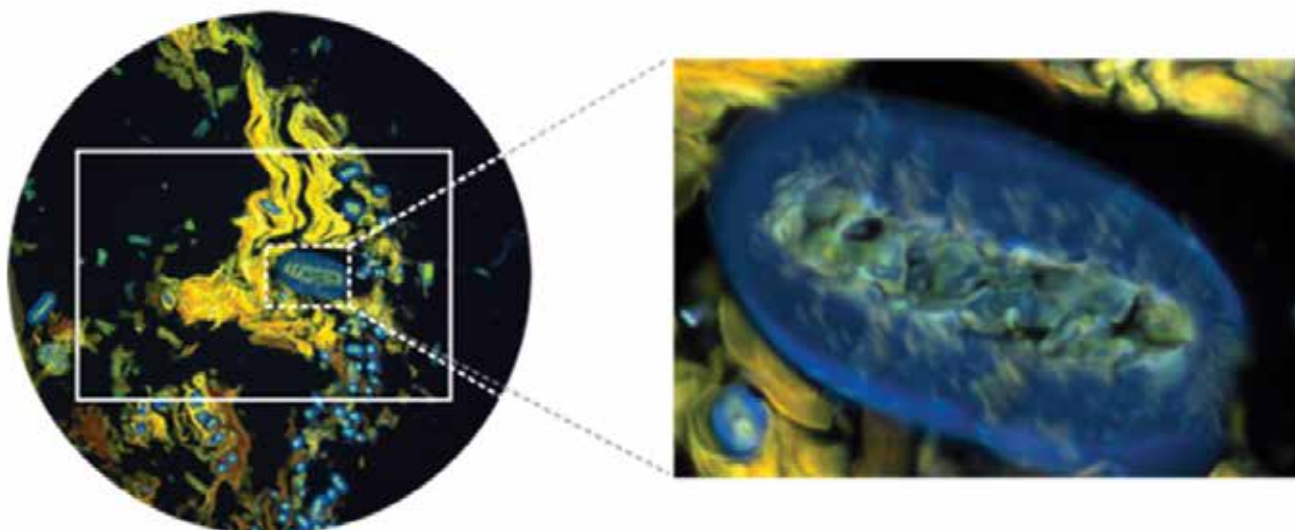


ESFL-20 Digital Camera



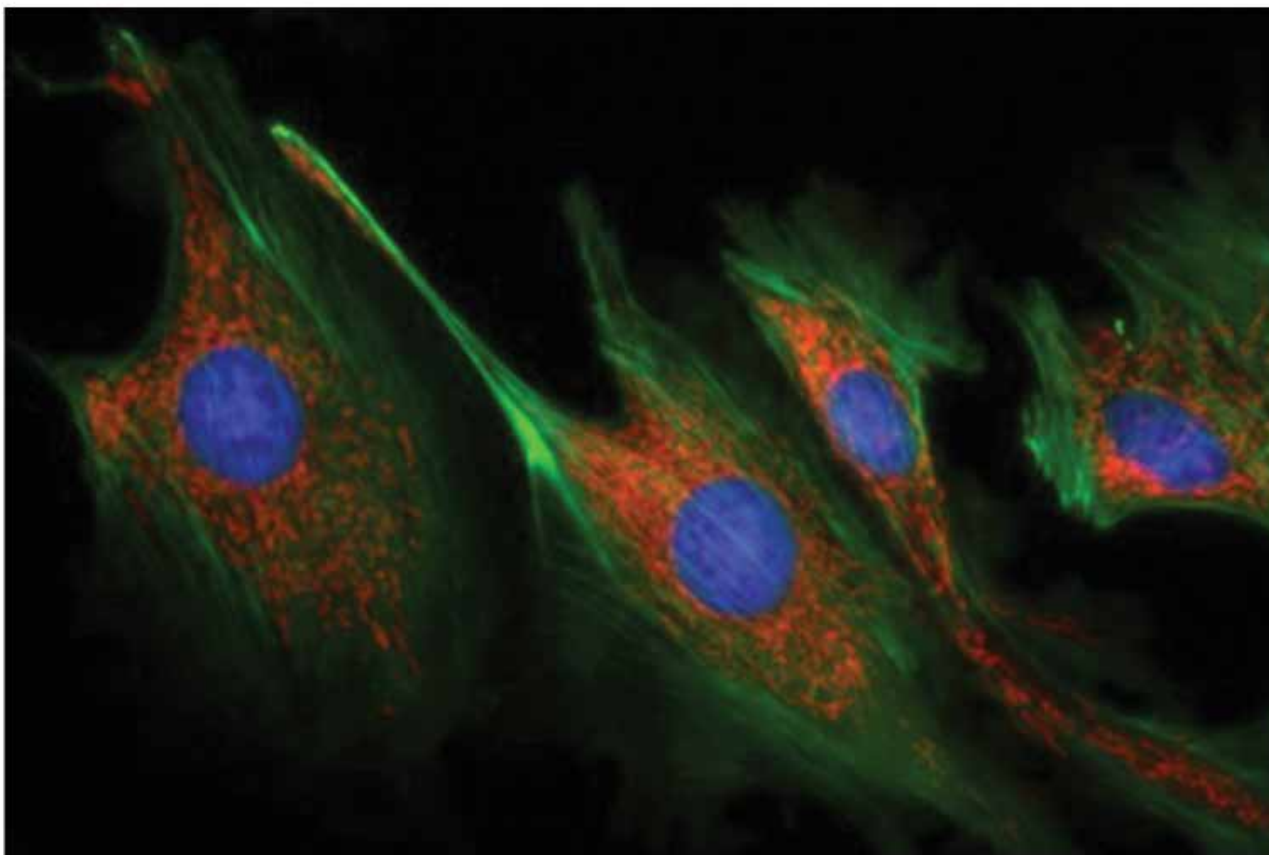
1). 20 megapixels, capturing high-definition detailed images in one shot

The ESFL 20's 1-inch sensor image can cover the most uniform central area of the image plane, with a resolution of up to 20 megapixels, you can capture the high-definition details of your samples in one shot.



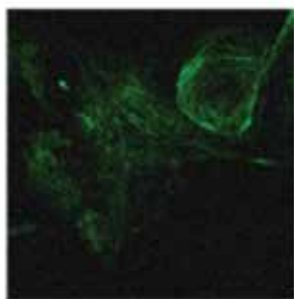
2). ESFL-20's Thermoelectric cooling noise reduction technology to meet more professional color fluorescence imaging needs

As with the top-level sCMOS camera technology from EduScience the ESFL-20 cooled camera operates at -15 °C and can ensure long-term reliable operation, significantly reducing the hot pixels caused by the accumulation of dark current, and obtaining a purer fluorescent background image. More than twice the sensitivity of a CCD, to meet the needs of professional fluorescence imaging.

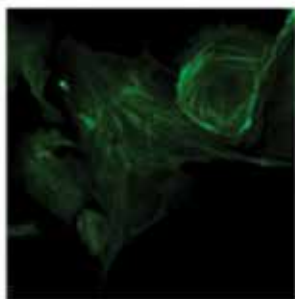


3). Real-time intelligent image processing, focused on improving image quality

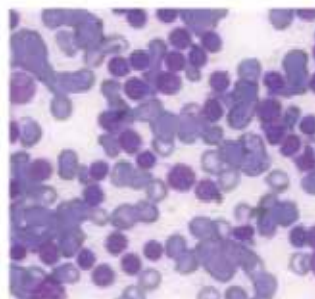
Without sacrificing speed and image information, the ESFL-20 offers a variety of real-time intelligent image processing capabilities that allow you to view and capture flawless sample images in real time with the push of a button.



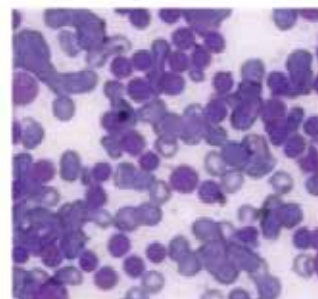
Before



After



Before



After



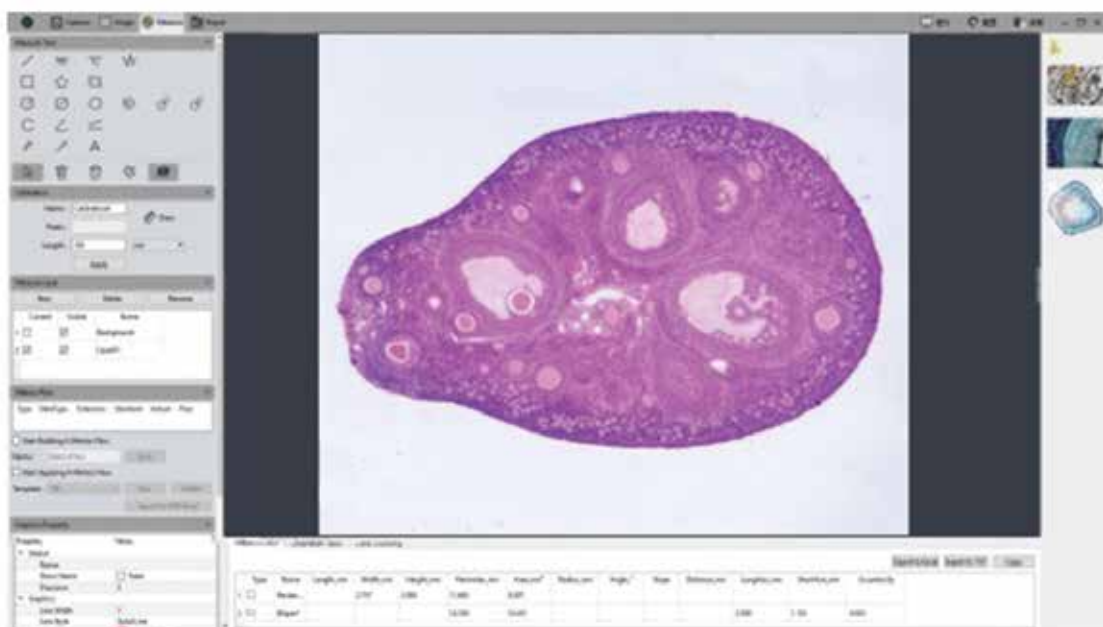
4). >50 frames per second high speed video

With a guaranteed field of view, the ESFL 20 offers a variety of high-speed imaging modes that can be adjusted for fast focus and positioning for an efficient image capture experience.

Resolution	FL 20BW	CCD
20MP	15fps	<1fps
5MP	53fps	4fps

5). Revolutionary PC Computing Imaging Software Capture V2.1

Unique from the cumbersome process of traditional technology to obtain images after processing, the Capture V2.1 provides real-time image stitching and real-time depth of field fusion. This can automatically complete the image while the operator moves the stage - productivity at its best.



Product Specifications

Model	ESFL-20
Color/mono	Color
Sensor model	Sony
Quantum efficiency	84%@535nm
Resolution	5472(H)x3648(V)
Pixel size	2.40μm x 2.40μm
Sensor size	15.86mm; 1 inch
Shutter mode	Rolling
Read noise	<1e-
Cooling	Forced air(Ambient at +25°C): -15 °C
Frame rate	14fps @5472x3648
	53fps @2736x1824
	67fps @1824x1216
Binning	2x2, 3x3, 4x4
Exposure setting	Auto/Manual
Exposure time 18us-1hour	Manual/Auto
Picture format	JPG/PNG/TIFF/DICOM
Data interface	USB3.0
Bit depth	16bit/8bit
Camera size	85mmx85mmx109mm
PC software	Capture 2.1





Infinite Multi-viewing Microscope

Optical system: Infinity corrected optical system

Viewing head: 1pc of Siedentop Trinocular Head, Inclined at 30°, 360° Rotatable, Interpapillary Distance 48-75mm 1pc of Siedentop Binocular Head, Inclined at 30°, 360° Rotatable, Interpapillary Distance 48-75mm

Eyeiece: 4pcs of Extra wide field eyepiece EW10x/20, eyepiece tube 30mm

Nosepiece: Reversed quintuple ball bearings revolving nosepiece

Objectives:

All with anti-fungus treatment.

Infinite plan achromatic objective 4x/0.10

Infinite plan achromatic objective 10x/0.25

Infinite plan achromatic objective 40x/0.65, spring loaded

Infinite plan achromatic objective 100x/1.25, spring loaded, oil

Stage: Double layer mechanical stage, with size: 185x142mm, 75x55mm X-Y movement range. Vernier scale on the two axes

Focusing: Integrated design, coaxial focus system with upper limited and tension adjustment, coarse stroke 37.7mm per rotation, fine precision: 0.001mm, fine stroke 0.2mm per rotation, moving range: 25mm, provided with an adjustable tightness device to prevent slipping and a mechanical upper limit device

Condenser: Achromatic condenser with swing out top lens N.A.0.90/0.25. The diaphragm settings are clearly marked for numerical aperture calculations. Accommodates objective magnifications from 2x to 100x (flip out the top lens for 2x). Easily installs into the condenser carrier with a thumb screw, center able for Köhler illumination

Illumination: Kohler illumination, aspherical collector, external halogen lamp 12V/100W house, with brightness adjustable

Pointer: Green LED pointer, brightness adjustable

Dual Color LED Pointer, Brightness Adjustable (optional)

Power: 100-240V, 50/60Hz

Others: Dust cover, spare fuse, blue & green filters, support to reduce the fatigue during use, with carrying handle

ESB-CB8204FB





Vernier Microscope - Travelling

Horizontal and vertical scales of stainless steel. The cast iron base is fitted with levelling screws with the top duly machined over which slides a metal carriage. Slide can be clamped at any position by means of clamping screw. Fine adjustment for final reading is with a micrometer screw. A vertical slide operating in a similar way is fitted on the horizontal carriage. The microscope with rack and pinion is fitted on this vertical carriage and can be clamped in a vertical or horizontal position. Stage for placing objects for measurement is fitted with Perspex plate. Achromatic lenses have been used.

Slides travel 165mm horizontally and 140mm vertically. Scales are accurately divided. Vernier reading 0.02 or 0.01mm. The unit packed in wooden polished case.

ESB52860



Microscopic Slide , 76/26 , Plain, (Pk/50)

Microscopic slides , 76/26 , plain, (pack of 50)

ESB52871



Microscopic Cover Slip

ESB52872 Size: 18 X 18 MM come in PK/100

ESB52873 Size: 20 X 20 MM come in PK/100



Haemocytometer Set

Complete set including double chamber, 2 cover glass, each one red and white diluting pipette with tubing and mouth piece

ESB52874



Haemometer Set

Haemometers are used for the determination of blood's content of haemoglobin's. our haemometer according to Sahli is supplied as complete set consisting of:

- polystyrene support with 2 coloured rods and opal glass plate
- comparator tube
- haemoglobin's pipette 20 μ l acc. to Sahli
- silicone tubing of approx. 16 cm length
- white mouthpiece
- dropping pipette with rubber teat
- stirring rod
- acid vial
- cleaning brush

ESB52875



Slide Box Plastic

This polystyrene slide box is durable, compact and provides protection to 75mm x 25mm slides. The heavy walls will not warp, splinter or crack under normal use.

ESB52876



- | | | | |
|-----------------|--|-----------------|---|
| ESB52878 | MICROSLIDE ADAPTATION | ESB52906 | MICROSLIDE Galaxies and Nebulae |
| ESB52879 | MICROSLIDE Air Pollution & Human Health | ESB52907 | MICROSLIDE Harmful and Helpful Bacteria |
| ESB52880 | MICROSLIDE Air Pollution and Plant Health | ESB52908 | MICROSLIDE Harmful Bacteria |
| ESB52881 | MICROSLIDE Amphibians | ESB52909 | MICROSLIDE Helpful Bacteria |
| ESB52882 | MICROSLIDE Animal Mitosis | ESB52910 | MICROSLIDE Heterotrophic Nutrition |
| ESB52883 | MICROSLIDE Aurelia-The Life Cycle | ESB52911 | MICROSLIDE Honey Bee |
| ESB52884 | MICROSLIDE Basic Human Histology | ESB52912 | MICROSLIDE How A One-Celled Animal Divides |
| ESB52885 | MICROSLIDE Body Defenses Against Infection | ESB52913 | MICROSLIDE How Living Things Breathe |
| ESB52886 | MICROSLIDE Cell Of Plants | ESB52914 | MICROSLIDE How Rocks Are Formed |
| ESB52887 | MICROSLIDE Cell Structure | ESB52915 | MICROSLIDE How Things Breathe |
| ESB52888 | MICROSLIDE Cells Of Plants and Animals | ESB52916 | MICROSLIDE How We Begin |
| ESB52889 | MICROSLIDE Cells Of Your Body | ESB52917 | MICROSLIDE Human Blood |
| ESB52890 | MICROSLIDE Chromosomes and Genes In Action | ESB52918 | MICROSLIDE Human Diseases |
| ESB52891 | MICROSLIDE Comparative Circulatory Systems | ESB52919 | MICROSLIDE Immunity |
| ESB52892 | MICROSLIDE Comparative Digestive Systems | ESB52920 | MICROSLIDE Ingestion (Amoeba) |
| ESB52893 | MICROSLIDE Comparative Nervous Systems | ESB52921 | MICROSLIDE Insect Parts |
| ESB52894 | MICROSLIDE Comparative Respiratory Systems | ESB52922 | MICROSLIDE Life Functions (Paramecia) |
| ESB52895 | MICROSLIDE Dissection Set - Cat | ESB52923 | MICROSLIDE Life In The Boreal Forest |
| ESB52896 | MICROSLIDE Dissection Set - Earthworm | ESB52924 | MICROSLIDE Life In The Desert |
| ESB52897 | MICROSLIDE Dissection Set - Frog | ESB52925 | MICROSLIDE Life In The Grasslands |
| ESB52898 | MICROSLIDE Drug Abuse | ESB52926 | MICROSLIDE Life In The Rain Forest |
| ESB52899 | MICROSLIDE Ecology Under The Microscope | ESB52927 | MICROSLIDE Life In The Soil |
| ESB52900 | MICROSLIDE Egg To Tadpole To Frog | ESB52928 | MICROSLIDE Life On The Tundra |
| ESB52901 | MICROSLIDE Fighting Infections | ESB52929 | MICROSLIDE Locomotion |
| ESB52902 | MICROSLIDE Fossils | ESB52930 | MICROSLIDE Mapping The Stars |
| ESB52903 | MICROSLIDE Fossils and Evolution | ESB52931 | MICROSLIDE Marchantia - The Life Cycle (1969) |
| ESB52904 | MICROSLIDE From Flower To Fruit | ESB52932 | MICROSLIDE Marine Biology |
| ESB52905 | MICROSLIDE Fur, Feathers, Skin & Scales | ESB52933 | MICROSLIDE Marine Plankton |



ESB52934	MICROSLIDE Measuring The Big Bang	ESB52958	MICROSLIDE The Birth and Death Of Stars
ESB52935	MICROSLIDE Mechanisms For Survival	ESB52959	MICROSLIDE The Cytoplasm
ESB52936	MICROSLIDE Your Body	ESB52960	MICROSLIDE The Drosophila
ESB52937	MICROSLIDE Algae	ESB52961	MICROSLIDE The Five Kingdoms Of Life
ESB52938	MICROSLIDE Monocots & Diocots	ESB52962	MICROSLIDE The Flower Of A Flowering Plant
ESB52939	MICROSLIDE Moss-The Life Cycle	ESB52963	MICROSLIDE The Frog
ESB52940	MICROSLIDE Nerve and Muscle Action	ESB52964	MICROSLIDE The Human Brain (1994)
ESB52941	MICROSLIDE Nutrition	ESB52965	MICROSLIDE The Hydra
ESB52942	MICROSLIDE Obelia-The Life Cycle	ESB52966	MICROSLIDE The Kingdom Fungi (1982)
ESB52943	MICROSLIDE Omnivores	ESB52967	MICROSLIDE The Kingdom Monera
ESB52944	MICROSLIDE Parts Of An Insect	ESB52968	MICROSLIDE The Kingdom Protista
ESB52945	MICROSLIDE Plants That are not Green	ESB52969	MICROSLIDE The Leaf Of A Flowering Plant
ESB52946	MICROSLIDE Plants Without Flowers	ESB52970	MICROSLIDE The Life Cycle Of Malaria
ESB52947	MICROSLIDE Porifera (Sponges)	ESB52971	MICROSLIDE The Microscope-A Tool For Learning
ESB52948	MICROSLIDE Predators	ESB52972	MICROSLIDE The Monarch Butterfly
ESB52949	MICROSLIDE Probing The Sun's Secrets	ESB52973	MICROSLIDE The Plant Kingdom
ESB52950	MICROSLIDE Protozoa	ESB52974	MICROSLIDE The Root Of A Flowering Plant
ESB52951	MICROSLIDE Spectroscopy In The Sky	ESB52975	MICROSLIDE The Stem Of A Flowering Plant
ESB52952	MICROSLIDE Survival By Camouflage (Hide and Seek)	ESB52976	MICROSLIDE The Tidepool
ESB52953	MICROSLIDE Taxonomy	ESB52977	MICROSLIDE Vegetative Propagation
ESB52954	MICROSLIDE Teeth and Gums	ESB52978	MICROSLIDE Your Brain
ESB52955	MICROSLIDE The Animal Kingdom	ESB52979	MICROSLIDE Your Life and Breath
ESB52956	MICROSLIDE The Arachnids	ESB52980	MICROSLIDE Your Teeth and Gums
ESB52957	MICROSLIDE The Bee	ESB52981	MICROSLIDE Yours Glands

3D microscopic Camera

In recent years, the content of education has been diversified in all fields, from student's career to digital-based learning that keeps pace with the development of the IT industry. Students are used to seeing things in 2D, but now they can observe them in 3D. Since we live in three dimensions, observing in 3D is more immersive and allows us to understand situations more easily and remember them for longer than flat learning.





Prepared Slide Set Basic Biology

Set of 25 different slides covers the major requirements for a basic course in biology. Selected slides from the zoology, histology and botany sections make up this useful set. Supplied in Box.

Paramecium, E Paramecium, conjugation, E Hydra, TS Hydra, with testis, TS Hydra, with ovary, TS Taenia (tapeworm), scolex, LS Taenia, proglottid, E Compact bone, TS Striated muscle, LS Cardiac muscle, LS Spinal cord, TS Nerve cells, smear Skin, VS Kidney, VS Lycopodium strobilus, LS Spirogyra, conjugation, Yeast, E Liliium (lily), anther, TS Dryopteris, pinnule with sori, TS Stigma with pollen tube Liliium (lily), anther, TS Dryopteris, pinnule with sori, TS Stigma with pollen tube Cucurbita (marrow), stem, TS Liliium, ovary, TS

Tilia (lima), young and old stem, TS Lumbricus (earthworm), TS, typhlosole Helianthus, stem, secondary thickening, TS.

ESB52983



Prepared Silde Set Basic Botany

Set of 25 different slides covers the major requirements for a basic botanical specimens representing the major plant groups. Supplied in Box. Chlamydomonas, E, Spirogyra, vegetative filaments, E Spirogyra, conjugation, E Fucus, dioecious, antheridial and oogonial Mucor, conjugation Conceptacles on one slide, VS Saccharomyces (yeast), budding, E Penicillium, mycelium and conidia, E Marchantia (liverwort), thallus, antheridia, VS Marchantia thallus, archegonia, VS Mnium (moss), antheridial head, VS Marchantia developing sporogonium, VS Mnium, archegonial head, VS Dryopteris (fern), prothallus with antheridia, Dryopteris, pinnule with sori, TS and archegonia, E Pinus (pine), leaf, TS, Allium (onion), root apex, mitosis, LS Zea, (maize), leaf, TS, Helianthus (sunflower), young root, TS Zea, stem, TS, Helianthus, stem, TS Cucurbita (marrow), stem LS for sieve tubes Tilia (lime), young and old stem, TS Ranunculus (buttercup), flower bud, LS Prunus (cherry), leaf, TS Pollen grains, wind and insect distribution, E

ESB52984



Prepared Silde Set Bacteria Set/12

Set of 12 different slides of bacteria supplied in plastic box includes: Mixed bacteria, bacilli, cocci and spirillum Mycobacterium tuberculosis, in tissue Cocci, Gram positive and negative Rhizobium, in root nodule Bacilli, Gram positive and negative, Vibrio Escherichia coli, Spirillum, Bacillus subtilis Staphylococcus epidermidis, Bacillus megaterium Streptococcus lactis

ESB52985



Prepared Silde Set General

Set of 50 Slides Bacteria-3 types-SMR, Hydra-WM Amoeba-WM, Obelia colony-WM Paramecium-WM, Dugesia (Planaria)-WM Euglena-WM, Fluke (Clonorchis)-WM Volvox-WM, Hookworm, Spirogyra-WM Earthworm-CS, Bread mold Sexual-WM Insect Spiracle-WM, Penicillium-WM Fly wing and leg-WM, Mushroom gill-CS Honeybee sting-WM, Moss antheridia-CS Grasshopper testis-CS, Moss archegonia-CS Ascaris female gonads-CS, Fern prothallia-WM Frog egg-CS, Fern rhizome-CS, Frog egg blastula-CS Polypodium sori-CS Mammal skin-CS, Onion root tip-LS, Frog blood-SMR Dicot root-CS, Mammal intestine-CS Monocot/dicot stem-CS, Amphiuma liver-CS Woody stem-CS, Chick-33-hour-WM Dicot leaf-CS, Chick-96-hour-CS Columnar epithelium, Onion epidermis-WM Squamous epithelium-SMR, Lily bud-CS Corn seed embryo-CS, Bone-CS Mixed pollen-WM, Mammal ovary-CS Sponge-CS Grantia, Mammal Testis-CS Sponge spicules-WM, Human sperm-SMR.

ESB52986



Prepared Silde Set Human Histology

Set of 25. Supplied in Box. Cerebellum, Section Ileum, section Spinal cord, TS, Duodenum, TS Nerve, TS and LS, Appendix, TS Artery and vein, TS, Colon, VS Cardiac muscle, section, Pancreas, section Lymph node, section Liver, section, Spleen, section Kidney, section Scalp, VS, Ovary, section Skin, heavily pigmented, section Uterus, section Striated muscle, section Cervix, section Mammary gland, section Testis, section Oesophagus, section Thyroid gland, section Stomach, fundic portion, section

ESB52987

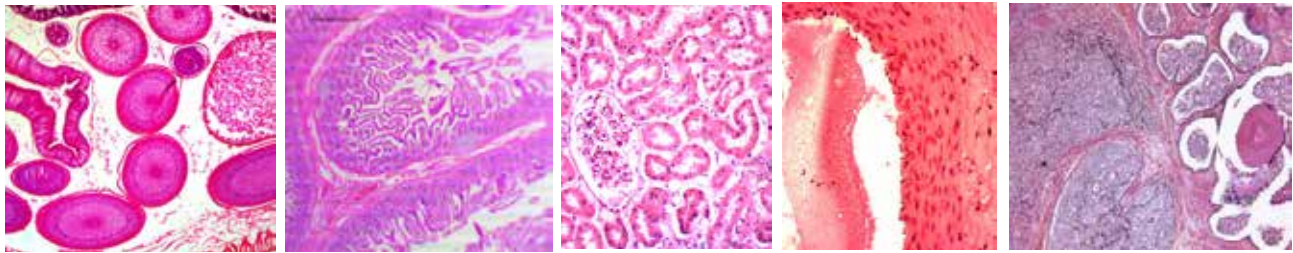


Biological Science Set Of 50 Kit

Biological Science Set of 50 KIT

ESB52988





Cells, Tissues And Organs Set

Pack Of Thirteen

Cells, Tissues and Organs Microscope Slide Set Pack of thirteen

ESB52989

Connective Tissues System Of Movement Set

pack Of Fifteen

Connective Tissues System of Movement Microscope Slides Pack of fifteen

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Environmental Adaptations Of Plants Set

Environmental Adaptations of Plants Pack Set of 3

ESB52991

Genetics, Reproduction And Embryology Set

Genetics, Reproduction and Embryology Microscope Slide Set Pack of nineteen

ESB52992

Human Anatomy Set 1

Contain 25 different slide for human anatomy basic study 1 Pack

ESB52993

Human Anatomy Set 2

Contain 25 different slide for human anatomy advance study 1 Pack

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Human Scalp And Hair Set

Human Scalp and Hair Microscope Slides Pack of twelve

ESB52995

Meiosis And Mitosis Slide Set

Meiosis and Mitosis Slide Set Pack

ESB52996

Mitosis And Meiosis Set 1

Mitosis and Meiosis Set 1 Pack of six

ESB52997

Mitosis And Meiosis Set 2

Mitosis and Meiosis Set 2 Pack of five

ESB52998

Plant Structure I - Angiosperms

Plant Structure I - Angiosperms Pack - Set of 3

ESB52999

Prokaryotes Slide Set

Prokaryotes Slide Set Pack

ESB53000

Respiratory And Circulatory System Set

Respiratory and Circulatory System Microscope Slides Pack of ten

ESB53001

Textile Fibres And Fabric Set

Textile Fibres and Fabric Microscope Slides Pack of twenty five

ESB53002



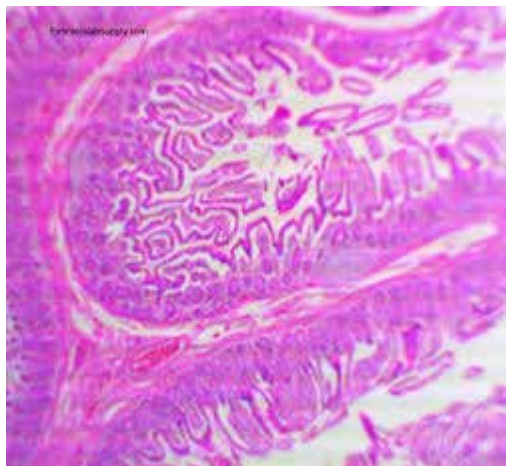
Zoology Slides

- ESB53003** Adipose tissue, sec.
- ESB53004** Adrenal gland T.S.
- ESB53005** Cortex and medulla
- ESB53006** Aorta
- ESB53007** Vein, T.S.
- ESB53008** Areolar connective tissue
- ESB53009** Artery and vein, thin sec.
- ESB53010** Vein, thin sec.
- ESB53011** Bed bug (*cimex lectarius*) w.m.
- ESB53012** Bronchus T.S. (plastic embedded)
- ESB53013** Cardiac muscle L.S.. intercalated discs.
- ESB53014** Cardiac stomach T.S.
- ESB53015** Catshark (*scyliorhinus*) h.s. gill arch of late embryo
- ESB53016** Ciliated epithelium T.S. oviduct (plastic embedded)
- ESB53017** Cockroach (*periplaneta*), head entire.
- ESB53018** Colon T.S. large intestine
- ESB53019** Compact bone L.S.
- ESB53020** Compact bone T.S.
- ESB53021** Compact bone T.S. decalcified femur
- ESB53022** cuboidal epithelium sec.
- ESB53023** Kidney tubules
- ESB53024** Earthworm (*lumbricus*) T.S. Intestinal region
- ESB53025** Earthworm (*lumbricus*) T.S. Intestinal region (for insertion of chaetae)
- ESB53026** Effector nerve endings (intercostal muscle)
- ESB53027** Frog blood smear
- ESB53028** Fruit fly (*drosophila melanogaster*) salivary gland
- ESB53029** fundic stomach T.S.
- ESB53030** Housefly (*musca domestica* imago) head and proboscis entire
- ESB53031** Human blood smear, giemsa stained
- ESB53032** Human cardiac muscle, sec.
- ESB53033** Human molar or canine tooth I.S.
- ESB53034** Human pacinian corpuscle V.S. (skin or pancreas)
- ESB53035** Human plantar skin V.S. (triple stain)
- ESB53036** Human scalp V.S. (triple stain)
- ESB53037** Human thyroid, sec.
- ESB53038** Hydra I.s. general structure
- ESB53039** Hydra t.s. for endoderm and ectoderm structure
- ESB53040** Hydra w.m. budding
- ESB53041** Hydra w.m. carefully extended and stained.
- ESB53042** Insect trachea (cockroach or locust)
- ESB53043** Liver (human) V.S.
- ESB53044** Liver (pig) V.S.
- ESB53045** Liver fluke (*fasciola hepatica*) w.m. carefully extended specimen
- ESB53046** Liver, injected, sec.
- ESB53047** Locust embryo squash (acetic orcein and feulgen stain)
- ESB53048** Locust, v.s. Head and eye (triple stain)
- ESB53049** Lung t.s. Stained for elastic and collagen fibres of alveolar walls.
- ESB53050** Lung, injected, thick sec.
- ESB53051** Lung, t.s. thin sec. (plastic embedded)
- ESB53052** Lymph node t.s. cortex and medulla (plastic embedded)
- ESB53053** Mammal duodenum, sec. (brunners glands)
- ESB53054** Mammal hyaline cartilage, sec.
- ESB53055** Mammal ileum, sec.
- ESB53056** Mammal small intestine t.s.
- ESB53057** Mammal yellow elastic cartilage, sec.
- ESB53058** Medulla oblongata t.s.
- ESB53059** Mites w.m.
- ESB53060** Mosquito (*anopheles*) w.m. female adult, mouthparts
- ESB53061** Nematode (*trichinella spiralis*) encysted larvae in muscle sec.
- ESB53062** Nerve cells (spinal cord smear)
- ESB53063** Non-striated (smooth) muscle, intestinal wall
- ESB53064** Pancreas for islets of langerhans
- ESB53065** Peripheral nerve I.s.
- ESB53066** Peripheral nerve t.s.
- ESB53067** Peripheral nerve t.s. (plastic embedded)
- ESB53068** Pituitary v.I.s.
- ESB53069** Planarian worm t.s. (triple stain)
- ESB53070** Polychaete worm (*nereis*) w.m. parapodium.
- ESB53071** Pseudostratified ciliated columnar epithelium t.s. trachea/bronchus
- ESB53072** Rabbit oesophagus t.s.
- ESB53073** Rat cerebellum sec.
- ESB53074** Rat cerebral cortex, sec.
- ESB53075** Red bone marrow smear
- ESB53076** Respiratory system
- ESB53077** Scabies mite (*sarcoptes*) w.m. isolated adults
- ESB53078** Simple columnar epithelium of intestine
- ESB53079** Simple squamous epithelium - pavement tissue (frog skin)
- ESB53080** Small intestine I.s.
- ESB53081** Small mammal entire heart, I.s.
- ESB53082** Small intestine
- ESB53083** Snail (*helix*) w.m. radula
- ESB53084** Spinal cord c.s.
- ESB53085** Squamous epithelium - buccal smear
- ESB53086** Stomach for mucous, parietal and chief cells
- ESB53087** Stratified squamous epithelium t.s. oesophagus
- ESB53088** Striated muscle t.s. selected for muscle spindles
- ESB53089** Striated muscle, cardiac L.S.
- ESB53090** Striated muscle, skeletal, sec.
- ESB53091** Taenia pisiformis w.m. scolex
- ESB53092** Tapeworm (*echinococcus granulosus*) w.m. Complete
- ESB53093** Tapeworm (*taenia pisiformis*) ova in faeces
- ESB53094** Tapeworm (*taenia pisiformis*) W.M. cysticercus, scolex
- ESB53095** Tapeworm (*taenia*) T.S. proglottid (triple stain)



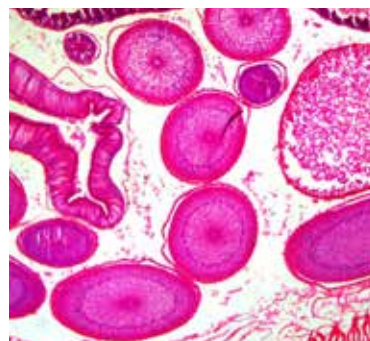
Zoology Slides

- ESB53096** Tendon L.S. white fibrous connective tissue
- ESB53097** Thyroid gland, sec.
- ESB53098** Thyroid and parathyroid T.S.
- ESB53099** Tongue V.S.
- ESB53100** Trachea (triple stain)
- ESB53101** Trachea T.S. thin sec. (h & e stain, plastic embedded)
- ESB53102** Transitional epithelium sec. bladder sec.
- ESB53103** Vertebral column (entire) T.S.
- ESB53104** White fibro-cartilage l.s. intervertebral disc.
- ESB53105** Yellow elastic connective tissue l.s.



Bacteria Slides

- ESB53106** Anabaena w.M. Filaments
- ESB53107** Bacillus cereus W.M.
- ESB53108** Bacillus megatherium W.M.
- ESB53109** Bacillus,
- ESB53110** Coccus and
- ESB53111** Spirillum W.M. (Gram stain)
- ESB53112** Escherichia coli W.M.
- ESB53113** Gram +VE and -VE bacilli W.M..
- ESB53114** Mycobacterium tuberculosis in sputum smear
- ESB53115** Nostoc filament
- ESB53116** Oscillatoria W.M.
- ESB53117** Rhizobium leguminosarum sec.
- ESB53118** Streptococcus lactic - microscope slide



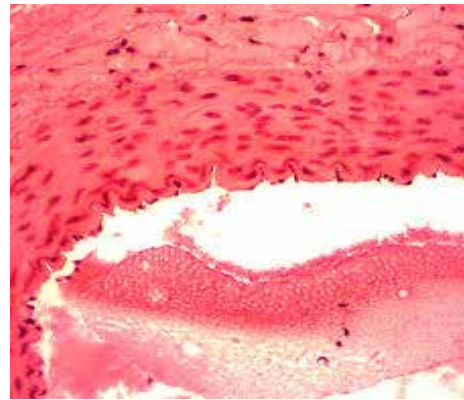
Plant Slides

- ESB53119** Allium root tip
- ESB53120** Allium root tip
- ESB53121** Beech (fagus) sun shade leaf sec.
- ESB53122** Broad bean (vicia) L.S. root tip
- ESB53123** Broad bean (vicia) T.S. young root hair region
- ESB53124** Buttercup (ranunculus repens) T.S. stem
- ESB53125** Buttercup (ranunculus) L.S. flower
- ESB53126** Buttercup (ranunculus) T.S. mature root
- ESB53127** Buttercup (ranunculus) T.S. root
- ESB53128** Buttercup (ranunculus) T.S. root, young (protoxylem only)
- ESB53129** Buxus (or alt. dicot) W.M. lower epidermis with stomata
- ESB53130** C3 and C4 leaf T.S.
- ESB53131** Capsella L.S. ovule - cotyledon stage
- ESB53132** Capsella L.S. ovule - early embryo, short serial
- ESB53133** Cherry laurel (prunus lauro-cerasus) T.S. leaf
- ESB53134** Club moss (mnium) L.S. archegonial head
- ESB53135** Club moss (mnium) L.S. capsule
- ESB53136** Crassulacean acid metabolism T.S. leaf
- ESB53137** Crowberry (empetrum nigrum) t.s. xerophytic leaf
- ESB53138** Cucurbita L.S. stem, sieve tubes
- ESB53139** Cucurbita T.S. stem, sieve tubes
- ESB53140** Cucurbita T.S. and l.s. stem
- ESB53141** Deadnettle (lamium) T.S. stem
- ESB53142** Drosera, sundew - microscope slide
- ESB53143** Elderberry (sambucus) t.s. bark with lenticel
- ESB53144** Fern (dryopteris filix-mas) t.s. pinnule with sori.
- ESB53145** Fern w.m. prothallus (developing sporophyte, first leaf emerged)
- ESB53146** Fern W.M. prothallus (developing sporophyte, young stage)
- ESB53147** Fern w.m. prothallus (immature, archegonia only)
- ESB53148** Fig (ficus) T.S. leaf - multiple epidermis with sunken stomata cystoliths
- ESB53149** french bean (phaseolus) T.S. leaf
- ESB53150** Heather (erica) T.S. xerophytic leaf
- ESB53151** helianthus L.S. stem
- ESB53152** helianthus T.S. and L.S. stem
- ESB53153** Impatiens T.S. and h.L.S.leaf
- ESB53154** Lily (lilium regale) T.S. anthers - first meiotic division, early prophase
- ESB53155** Lily (lilium regale) T.S. anthers - first meiotic division, late prophase
- ESB53156** Lily (lilium regale) t.s. anthers - first meiotic division, metaphase
- ESB53157** Lily (lilium regale) T.S. anthers - second meiotic division
- ESB53158** Lily (lilium) germinating pollen



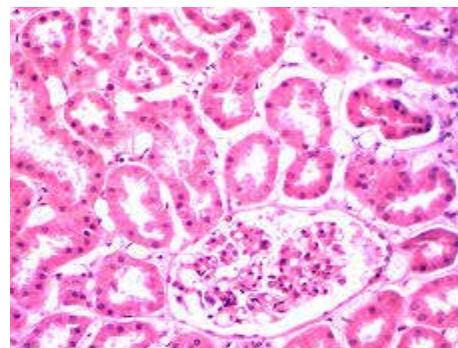
Plant Slides

- ESB53159** Lily (*lilium*) mature embryo sac
- ESB53160** Lily (*lilium*) T.S. young flower bud.
- ESB53161** Lime (*tilia*) T.S. old stem
- ESB53162** Lycopodium T.S. stem.
- ESB53163** Maize (*zea mays*) T.S. leaf
- ESB53164** Maize (*zea mays*) T.S. root
- ESB53165** Maize (*zea*) T.S. and L.S. stem
- ESB53166** *marchantia polymorpha* v.s. antheriophore
- ESB53167** with antheridia
- ESB53168** *Marchantia polymorpha* v.s. sporogonium
- ESB53169** Marram grass (*ammophila arenaria*) t.s. xerophyte
- ESB53170** Mesophytic, hydrophytic and xerophytic leaf.
- ESB53171** Monocot leaf T.S.
- ESB53172** Dicot leaf T.S.
- ESB53173** Monocot and dicot root C.S. comparison
- ESB53174** Monocot stem T.S.
- ESB53175** Dicot stem T.S.
- ESB53176** Moss L.S. of antheridial head
- ESB53177** Moss leaf W.M.
- ESB53178** Nettle (*urtica dioica*) T.S. stem for stinging cells
- ESB53179** Onion (*allium*) L.S. root tip (stained for mitosis, all stages) - set of 5
- ESB53180** Onion (*allium*) root tip squash (feulgen acetic-orcein stain)
- ESB53181** Onion (*allium*) root tip squash (stained for mitosis, metaphase)
- ESB53182** Onion (*allium*) W.M. epidermis with stomata
- ESB53183** Pine (*pinus*) T.S.. leaf
- ESB53184** Pine (*pinus*) T.S. older stem plus annual rings
- ESB53185** Pine (*pinus*) T.S. young root
- ESB53186** Pine (*pinus*) w.m. stem to show xylem tubes.
- ESB53187** *Pinus* l.s. whole female cone (1st year)
- ESB53188** *Pinus* w.m. pollen
- ESB53189** Pondweed (*potamogeton*) T.S. stem, hydrophyte
- ESB53190** Potato (*solanum*) T.S. stem, tuber for starch
- ESB53191** Privet (*ligustrum*) T.S. leaf
- ESB53192** Privet (*ligustrum*) T.S. leaf
- ESB53193** Rice T.S. root
- ESB53194** Sorghum T.S. leaf
- ESB53195** Sunflower (*helianthus*) T.S. root, young
- ESB53196** Sunflower (*helianthus*) T.S. leaf
- ESB53197** Sunflower (*helianthus*) T.S. root, old
- ESB53198** Sunflower (*helianthus*) T.S. stem, old (secondary thickening)
- ESB53199** Sunflower (*helianthus*) T.S. stem, old primary
- ESB53200** Sunflower (*helianthus*) T.S. stem, young
- ESB53201** Sunflower (*helianthus*) T.S. stem, young primary (pericycle fibres unthickened)
- ESB53202** Sunflower (*helianthus*) T.S. stem, interfascicular cambium
- ESB53203** Water lily (*nymphaea*) T.S. floating leaf



Extra

- ESB53204** *Agaricus campestris* V.S. Pileus, gills with basidiospores
- ESB53205** *Amoeba proteus* W.M. Selected specimens
- ESB53206** *Aspergillus* on substrate with conidiospores
- ESB53207** *Chlamydomonas* W.M. Vegetative stages
- ESB53208** *Chlorella* W.M.
- ESB53209** Ectotrophic mycorrhiza W.M.
- ESB53210** Endotrophic mycorrhiza C.S.
- ESB53211** *Euglena viridis* (careful differential haematoxylin staining)
- ESB53212** Lycopodium L.S. Strobilus
- ESB53213** Mixed marine diatoms W.M. Protoplasts stained
- ESB53214** Mixed protozoa W.M.. Common forms
- ESB53215** *Paramecium caudatum* W.M. in conjunction
- ESB53216** *Paramecium caudatum* W.M. (Careful differential staining)
- ESB53217** *Penicillium* on substrate with hyphae and conidiospores.
- ESB53218** *Plasmodium falciparum* smear
- ESB53219** Puccinia (wheat rusts) T.S. Host with uredospores
- ESB53220** *Rhizopus stolonifer* W.M. With sporangia
- ESB53221** *Rhizopus stolonifer* W.M. With zygospores
- ESB53222** *Saccharomyces cerevisiae* W.M. Budding cells
- ESB53223** *Sordaria fimicola* W.M.
- ESB53224** *Spirogyra* vegetative filaments
- ESB53225** *Trypanosoma brucei* in rat blood smear (giemsa stain)
- ESB53226** *Volvox* W.M. Daughter colonies, sexual stages, zygotes



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Analysis Of Hair

The Hair Analysis Kit provides students with the opportunity to use scientific methods and basic laboratory skills to study the morphology of hair samples from various species. Includes a discussion of hair used as evidence in forensic science, directions for mounting hair samples and visualizing scale patterns, and illustrated descriptions of hair structures. Students conduct two forensic examinations using the standard procedures used by forensic examiners. Includes instructional manuals and student worksheets. Required, but not included: microscopes, hair brushes, forceps, and plastic sandwich bags. Designed for 24 students working in six groups of four. Meets national standards for grade levels 9-12.

Kit Contains:

Instructor Manual, Student Manual, MSDS, Student Diagram Charts, #1 Examination Worksheets, #2 Examination Worksheets
Microscope Slides, , Cover Slips, CD, Hair Sample A, Hair Sample B, Hair Sample C, Mounting Media, Fingernail Polish

ESF53502

Analysis Of Documents

Analysis of Documents includes a series of lab investigations in which types of paper, ink, pencil marks, typewriting, and handwriting are analysed using microscopic observation, UV light, chromatography, replicating techniques, and wet chemistry to determine forgery of checks and alteration of notes and messages. Culminates in the analysis of secret messages. Includes instructional manuals and reproducible student worksheets. Required, but not included: Microscope, UV light, hot plate (or heat lamp or oven), lemon juice or milk, erasers, cotton balls, clear tape, small jars, watch glasses or beakers. Designed for 24 students working in six groups of four. Meets national standards for grade levels 6-12.

Kit Contains:

Instructor Manual, Student Manual, MSDS, Chromatography Paper, Jars w/ Lids, Black Felt Tipped Pens, Pencils, Blue Pens, Typed Notes, Crime Scene Note, Magnifying Lenses, Brushes, Clay, Disposable Gloves, Shell Vials, Forceps, Different Types of Paper, Ethanol
Acetone, Butanol, Sodium Hydroxide Solution, Phenolphthalein Solution, Iron Sulphate Solution, Potassium Ferro-cyanide Solution
Ink Eradicator, Iodine, Fluorescent Ink

ESF53503

Analysis Of Drugs & Poisons

Students are introduced to qualitative analysis in the intriguing context of criminal investigation. Chemical analytical techniques are used to identify over-the-counter drugs, test for controlled substances using simulated drugs, simulate presumptive drug testing, and detect evidence of heavy metal poisoning through the analysis of amino acids in urine. Includes materials for six groups (24 students) and an instructors manual with reproducible student instructions, data sheets, and complete answer keys. Meets national standards for grade level 9-12. Required but not included: UV light, microscope, oven, lamp, or hot plate, scale, glassware and lab supplies.

Kit Contains:

Instructor I453s Manual w/ Reproducible Student Data Sheet
MSDS, Simulated Urine Alanine, Simulated Urine Glycine, Simulated Urine Unknown, Crime Scene Unknown, Unknown A, Unknown B, Unknown Powder X, Unknown Powder Y, Aspirin, Tylenol, Alka- Seltzer, Butanol, Simulated LSD, Simulated Marijuana
Acetic Acid, Acidified Ferric Nitrate Solution, Acetone, Sodium Bicarbonate, Hydrochloric Acid, Ninhydrin (powder), Empty Plastic Bottles W/Dropper Caps, Universal Indicator and pH Colour Chart , Chromatography Paper, Capillary Tubes, Depression Plates, Pipettes
Q-tips, Toothpicks, Scott Reagent, Unknown Drug Sample, Quinine Mono-hydrochloride, Glass Sample Vials, Pasture Pipits

ESF53504





Analysis Of Fingerprints Class-pack (For 24 Students)

This kit provides students with the opportunity to learn standard techniques for dusting for fingerprints using a variety of powders and for developing latent fingerprints from a variety of surfaces. Students lift fingerprints from slides, develop prints on paper using both the Ninhydrin method and the Lugol Iodine method, use the cyanoacrylate fuming method to visualize a fingerprint on a metal spoon, and learn to identify direct prints. Each investigative group prepares 7 fingerprint evidence for another class group to analyse and with the aid of Modus Operandi sheets, the group identifies the fingerprints of the suspects with the aid of fingerprint standards developed by the FBI. Includes instructional manuals and student worksheets. Required, but not included: fume hood, (6) one-quart jars or one -litre beakers. Designed for 24 students working in six groups of four. Meets national standards for grade levels 10-12.

Kit Contains:

Instructor Manual, Student Data Sheets, MSDS, "FBI" Fingerprint Classification Sheets, Bond Paper, Filter Paper, Gloves, Pipit, Fingerprint Brushes, Magnifying Glasses, Forceps, Jars w/ Caps, Metal Spoons, Aluminium Foil, Super-glue, Ink Pads, Scotch Tape

String, Microscope Slides, Index Cards, Modus Operandi Sheets, Aluminium Powder, Carbon Black, Ninhydrin, Acetone, Iodine

ESF53505

Analysis Of Fingerprints Mini Kit (Ideal For 1 To 4 Students)

This kit provides students with the opportunity to learn standard techniques for dusting for fingerprints using a variety of powders and for developing latent fingerprints from a variety of surfaces. Students lift fingerprints from slides, develop prints on paper using both the Ninhydrin method and the Lugol Iodine method, use the cyanoacrylate fuming method to visualize a fingerprint on a metal spoon, and learn to identify direct prints. Each investigative group prepares 7 fingerprint evidence for another class group to analyse and with the aid of Modus Operandi sheets, the group identifies the fingerprints of the suspects with the aid of fingerprint standards developed by the FBI. Includes instructional manuals and student worksheets. Required, but not included: fume hood, (6) one-quart jars or one -litre beakers. Designed for 24 students working in six groups of four. Meets national standards for grade levels 10-12.

Kit Contains:

Instructor Manual, Student Data Sheets, MSDS, "FBI" Fingerprint Classification Sheets, Bond Paper, Filter Paper, Gloves, Pipette

Fingerprint Brushes, Magnifying Glasses, Forceps, Jars w/ Caps, Metal Spoons, Aluminium Foil, Super-glue, Ink Pads, Scotch Tape

String, Microscope Slides, Index Cards, Modus Operandi Sheets, Aluminium Powder, Carbon Black, Ninhydrin, Acetone, Iodine

ESF53506



Dusting For Fingerprints Class Kit

Students learn to prepare fingerprint evidence and to stabilize, dust, and lift latent fingerprints, then identify the prints by comparison to the minutia of inked prints. Includes advanced techniques using carbon, aluminium, magnetic, and fluorescent powders, magnetic applicators, fibreglass brushes, and camel fingerprinting brushes. Students apply their new expertise to determine the best methodologies for collecting prints from unusual surfaces and analyse print evidence to solve a crime at the Museum of the Modern Detective. Includes supplies for 24 students working in teams, complete instruction manual, reproducible student procedures, and assessment materials. Hood, UV light source, and goggles required. Requires special permit for international sales.

Kit Contains:

Instructor Manual, Student Manuals, MSDS, Tape, Ink Pad, Super Glue, Brushes, Aluminium Foil Sheet, Spoons, Charcoal, Aluminium Powder, Index Cards, Magnifying Glasses, Plastic Containers, Powder, Magnetic, Black, Powder, Magnetic, Fluoresc Pink, Magnetic Applicator, w/2Sleeves, Vinyl Flooring Piece, Hardwood Flooring Sample

ESF53509





Dustless Fingerprints

Investigate alternate methods for lifting fingerprints while practicing the scientific method. Students gather data using fingerprint evidence as they observe, compare, contrast, and hypothesize their way through four different experimental procedures. They will learn how to make impressions in clay and pour a mould, lift fingerprints from soda cans using super glue fuming, and use both iodine and ninhydrin fuming to lift fingerprints from paper. The activity includes an instructor's manual, and student data sheets. Note: This lab should be performed in a chemical fume hood. Designed for 24 students working in six groups of four. Meets national standards for grade levels 5-10.

Kit Contains:

Instructor Manual, Student Manuals, MSDS, Fingerprint Identification Sheets, Scotch Tape, Super Glue, Petri Dishes, Forceps, Tongue Depressors, Paint Brushes, Empty Jars w/ Caps, Paper Cups, Modelling Clay, Plastic Gloves, Magnifying Glasses, Aluminium Foil, White Paper, Plaster of Paris, Iodine, Products

ESF53514



Analysis Of Minerals & Soils

Analysis of Minerals & Soils kit now extends the students experience to not only investigate the physical and chemical properties of trace evidence from a crime scene, but to learn to characterize soil texture. Ideal for Forensic Science, Agriculture, and Environmental Science Courses. Experiments include: Characterizing Soil Appearance, Acidity of Soil, Soil Comparison by Particle Size Analysis, Forensic Density Distribution of Soil Particles, Chemical Reactions of Substances in Soil, and Analysis of Glass Samples. Now includes Hands-On Soil Classification Extension Activities for Determining Soil Texture by Sedimentation and by Using the Feel Method with instructions at differentiated learning levels. Required not included: fume hood, UV light, balance, microscope, oven/lamp or hot plate, glassware, and general lab supplies. Contains lead nitrate. Meets national standards for grades 9-12. Note: Soil sample A contains lead nitrate; avoid direct contact with this soil and wash hands after handling.

Kit Contains:

Instructor Manual
Student Data Sheets
Soil Sample A
Soil Sample B

Soil Sample C
Soil Sample D
Soil Sample "Crime Scene"
Suspect A (Glass Beads)
Suspect B (Glass Beads)
Crime Scene (Glass Beads)
Density Gradient Tubes
Medicine Droppers
Microscope Slides
Polarizing Film
Magnifying Glasses
Plastic Forceps
Plastic Spoons
Aluminum Pans
Sets of Sieves
Universal Indicator Chart
Labels
Bromoform
Bromobenzene
Universal Indicator
Hydrochloric Acid Solution T

ESF53507

Art Forgery

Add excitement to art, chemistry, or general science classrooms. Students use scientific observation and reasoning as they master the techniques used to distinguish original paintings from forgeries. They are presented with ?real? And (forged) Paintings in the styles of Monet, Van Gogh, and Pollack and asked to determine which are original. To determine this, they test for lead in the paint, check for fluorescence under UV light, and analyse paint colours to determine if they are mixed or layered. Required, but not included: UV lamp, 30 small test tubes with stoppers, distilled water, spatulas and match books. Contains lead nitrate and potassium chromate. Designed for 24 students working in six groups of four. Meets national standards for grades 6-12.

Kit Contains:

Instructor Manual, Student Data Sheets, MSDS, Single Edge Razor Blades, Magnifying Lenses, Paraffin Cubes, Pipets, 6 Pairs of Paintings, Empty Dropper Bottles w/ Caps, Lead Nitrate Solution, Potassium Chromate Solution

ESF53508

**Criminalization Kit**

This murder mystery provides inquiry based learning with an intriguing twist. Students apply many CSI techniques including blood typing, fingerprinting (dusting with carbon powder, dusting with aluminium powder, cyanoacrylate, iodine fuming, and ninhydrin), hair analysis, and analysing and identifying drugs, poisons and other chemicals. Using microscopes, measurement, chemical analysis, observation, and deductive reasoning, students examine the clues necessary to solve the murder of Mr. Paul Dudden. Includes Searching for Clues Forensics Manual, Murder Mystery CD, Analysis of Hair Identification Unit, Analysis of Fingerprinting Unit, and Analysing Drugs and Poisons Unit. Required, but not included: microscope, UV light, beakers, three test tubes with corks or stoppers, large jar, nails, scissors, distilled water, newspaper, pencils, and scrap paper. Designed for 24 students working in six groups of four. Meets national standards for Grades 7-12.

Kit Contains:

Instructor Manual, Student Manual, MSDS, MO Sheets, "Searching for Clues" Book, CD, Evidence Collection (A, B, C, D), Microscope Slides, Cover slips, Gloves, Forceps, Magnifying Glasses, Spoons, Index Cards, Filter Paper, Scrap Paper, Tape, Paint Brushes, Ink Pads
Pipettes, Depression Plates, Super Glue, String, Toothpicks, Empty Jars w/ Lids, Foil, Acetone, "Unknown" Heavy Metal, Carbon Powder
Aluminium Powder, Ninhydrin, Iodine, Clear Nail Polish, Hair Samples (A, B, C), Mounting Media, Universal Indicator & Chart, Hydrochloric Acid, Dille-Koppanyi A Reagent, Dille-Koppanyi B Reagent, Scott Reagent, Van Urk's Reagent, Drug "Unknown A"
Drug "Unknown B", Drug "Unknown Z", Simulated Marijuana, Simulated LSD, Acidified Ferric Nitrate, Mercury Compound, Lead Compound, Potassium Chromate, Aspirin, Tylenol, Alka Seltzer

ESF53510





Crime Scene

This kit takes students through six exercises using reasoning, common sense, math skills, biology, and chemistry to identify a crime scene: Scene Mapping, Hair Analysis, Soil Analysis, Rope Analysis, Analysis of Crime Scene Trash, and Interpretation of Police Evidence. When suspects and victims enter and/or leave a crime scene they bring with them and carry away useful pieces of evidence. Students learn to conduct a proper search, like real crime scene technicians, to avoid destroying evidence. They also learn to properly gather and document evidence and make factual interpretations of a crime scene. Required, but not included: microscopes, graduated cylinders, test tubes, rulers, markers, notebook paper, white paper, and water. Designed for 24 students working in six groups of four. Meets national standards for grades 5-8.

Kit Contains:

Instructor Manual, Student Investigation Packets, MSDS, Graph Paper, Glass Slides, Cover Slips, Mounting Media, Universal Indicator Solution, Sifting Screen, Soil Samples, Hair Samples, Rope Samples, Moulding Clay, Trash Evidence (including 9 trace evidence samples), Plastic Spoons, Magnifying Glasses

ESF53511

Blood Spatter Detective

The Blood Spatter Analysis Kit includes in depth experiments which help students become aware of how physics plays a role in criminal investigation. Students learn how gravity, distance, and angles affect a blood stain pattern. Includes the use of a build it yourself blood spatter chamber. Experiments include Distance Effect on Blood Spatter, Identifying Distance and Angle of Travel with Blood Spatter, and Investigating Blood Spatter with Luminol. Experimentation uses totally safe synthetic blood. Teaches students the sixteen general rules of blood spatter interpretation and extensive investigative technology. Now includes directions and student worksheets for calculating angle of impact, area of convergence, and point of origin from blood spatter patterns. Cross-curricular use of science and writing skills are applied in creating a crime scene scenario. Includes materials for 24 students working in six groups. Meets national standards for grade 9-12. Also appropriate for college level. Black Light required, but not included.

Kit Contains:

Instruction manual, Reproducible Student Worksheets, Simulated Blood, Simulated Haemoglobin, Luminol, Sodium Perborate, Sodium Carbonate, Spray Bottles, Complete Blood Spatter Chamber with Platform and Hammer, Paper for Spatter Chamber Protractors, Retractable Measuring Tape, Filter Paper, Pipette, Rulers, Paper Clips, Clip Boards.

ESF53512

Designing Investigations In Blood Spatter

Guide students through the investigative process of a blood spatter detective using this inquiry based activity. Just like the detective, they will design and conduct a simple experiment to model how blood reacts and how blood spatter patterns change in response to variables. They may choose to investigate the effects of angle, force, distance, surface texture, rate of movement, velocity at impact, number of blows, or location of the victim. They may investigate the difference in spatter due to cast-off, blunt force trauma or projectile trauma. They might compare patterns due to impact spatter, passive spatter, transfer spatter, or projected spatter. Just like the detective, students will analyse and present their results as evidence to support their case. This kit includes an instructor's manual with reproducible student pages, simulated blood, butcher paper, claw hammer, two screwdrivers, scissors, plastic knives, protractors, measuring tapes, and plastic pipettes. The kit may be used independently or as an introduction or companion to the analysis activities provided in EduScience Blood Spatter Kit # ESF53516.

Kit Contains:

Instructors Manual, Simulated Blood, Butcher Paper, Roll, Claw Hammer, Screwdrivers, Retractable Tape Measures, Protractors, Scissors, Plastic Knives, Plastic Pipette

ESF53516





Master Forensics

EduScience Master Forensics Kit presents the ultimate Crime Scene Investigation problem solving and deductive reasoning activity. This kit includes our slightly modified Fingerprint Analysis, Soil and Mineral Analysis, Hair Analysis, Document Analysis, and Analysis of Drugs and Poisons kits. Following training, your CSI investigators watch the included CD setting the scene for the crime and collect the clues to solve one of the four case scenarios. Includes all materials for training activities, a faculty cast list, and materials for preparing the evidence box. Complete with an updated, bound instructor's Manual, CDs, reproducible student instructions, and reproducible worksheets. Allow the equivalent of 12-14 one-hour lab periods. Not included: Microscopes, Chemical Splash Goggles, UV light, Oven or Heat Lamp, balance, (36) large test tubes, (6) graduated cylinders, 10 ml, (6) evaporating dishes, gloves and lab aprons. Designed for 24 students working in groups of four.

Kit Contains:

Instructor Manual, Student Manual, MSDS, CD	
Components of Fingerprint Analysis Kit	(ESF53505)
Components of Soil and Mineral Analysis Kit	(ESF53507)
Components of Hair Analysis Kit	(ESF53502)
Components of Document Analysis Kit	(ESF53503)
Components of Analysis of Drugs and Poisons Kit	(ESF53504)

ESF53513



Toxicology

This kit simulates authentic drug screening. Students extract drugs from simulated urine using columns, elute the drugs, run them on chromatographic gels, and use visualization techniques to identify the drugs. The lab may be done in four standard lab periods or two three hour lab periods and is easily separated into drug isolation and chromatography sections. Approximately fifty minutes is required for completing the thin layer chromatography and visualization process, which must be done all at one time. Required, but not included: fume hood, water bath 65-70C, hair dryer, UV light (356 nm; black light, strong sunlight, plant lights, or a goggle cabinet), UV light short wave (254 nm), and ring stands. Designed for 24 students working in six groups of four. Meets national standards for grade levels 10-12.

Kit Contains:

Instructor Manual, Student Manual, MSDS, Note on Phenylpropanolamine, Rf Value Cards Large, Rf Value Cards Small, Tox Elute Columns, Dropper Bottles, Silica Plates, Capillary Tubes, Pipette, Acetone, Methanol, Simulated Urine, Eluent, Ethyl Acetate, Ammonium Hydroxide, Potassium Iodide Solution, Methanol, Chloroplatinic Solution, Ninhydrin, Diphenylcarbozone, Mercuric Oxide, Contac (Mucinex), Sudafed, Caffeine, Dexatrim, Quinine, Sulphuric Acid Solution

ESF53515





Forensic Impressions

Footprints, shoe prints, tire tracks, and other impressions embedded in soft material, if properly identified, preserved, and evaluated, may provide the crime scene investigator with valuable class evidence. Students become the CSI detectives and learn to properly collect, record, and avoid destroying crime scene evidence as they photograph and cast six types of impressions using various methods in this investigation. Includes writing impressions, plastic prints, rope and binding impressions, key impressions, tire impressions and shoe impressions using carbon powder, plaster, clay, and ink. Materials provided for 24 students working in groups of two or four, depending upon the activity. Required, but not included: an old tire, an old gym shoe, mixing containers, a spray bottle, and newspaper. Meets national standards for grades 8-12.

Kit Contains:

Instructor's Manual, Students Manual, MSDS, Carbon Powder, Paint Brushes, Plain Paper, Modelling Clay, Plaster of Paris, Spoons
5 Different Rope Samples, Magnifying Glass, Tongue Depressors, Tire Impressions Pictures, Ink Roller, Ink, Cups, Soil, Sifting Screen
Tooth Brushes, Pans, Petri Dishes

ESF53518



Odontology- One Bite Out Of Crime Class-pack (For 24 Students)

Dental records, like fingerprints, offer a form of positive identification. Not only do they differ in detail from person to person, but they last longer than other physical evidence and may be the only identifiable body characteristic following catastrophic accidents, explosions, burning, or decomposition. Changes in dental records are minor as a person ages, so records compiled years earlier may provide positive identification. Kit includes seven experiments: Making a Patient Dental Chart, Identifying a Body with Dental Charts, Casting Teeth, Evidence Analysis of Bite Mark Injury, Collecting Evidence (Bite Marks in Wax Moulds), Identifying Suspects from Bite Marks, and Identifying Suspects (Matching Teeth Cast to Wax Bite Planes). Designed for 24 students working in six groups of four. Meets national standards for grades 9-12.

Kit Contains:

Instructor's Manual, Experiment #1, Student Data Sheet (SDS) Patient Chart, Dentist Worksheet (SDS), Experiment #1, Student Data Sheet, Assistants Worksheet, Experiment #2, Identifying a Body with Dental Charts, Experiment #3, SDS, Working Teeth Model
Experiment #4, SDS, Metric Analysis of Bite Mark, Experiment #5, SDS, Making Bite Mark Evidence In Wax, Experiment # 6, SDS, Identifying bite Marks in Wax , Experiment # 7, SDS, Identifying Suspect by Matching Teeth Cast to Teeth Bite Tray (Small & Medium)
Tooth Development Diagram SDS, Figure 1, Tooth Eruption at 5 Years SDS, Figure 2, Gloves, Magic Marker, Mould Material, Plaster Paris, Tongue Depressors, Plastic Cups, Measuring Cups, Seal-able Bags, Metric Rulers, Wax Bite Plates, Wax Bite Plane, Products
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ESF53517



Odontology- One Bite Out Of Crime Mini Kit (Ideal For 1 To 4 Students)

Dental records, like fingerprints, offer a form of positive identification. Not only do they differ in detail from person to person, but they last longer than other physical evidence and may be the only identifiable body characteristic following catastrophic accidents, explosions, burning, or decomposition. Changes in dental records are minor as a person ages, so records compiled years earlier may provide positive identification. Kit includes seven experiments: Making a Patient Dental Chart, Identifying a Body with Dental Charts, Casting Teeth, Evidence Analysis of Bite Mark Injury, Collecting Evidence (Bite Marks in Wax Moulds), Identifying Suspects from Bite Marks, and Identifying Suspects (Matching Teeth Cast to Wax Bite Planes). Designed for 24 students working in six groups of four. Meets national standards for grades 9-12.

Kit Contains:

Instructor's Manual,
Experiment #1, Student Data Sheet (SDS) Patient Chart, Dentist Worksheet (SDS)
Experiment #1, Student Data Sheet, Assistants Worksheet
Experiment #2, Identifying a Body with Dental Charts
Experiment #3, SDS, Working Teeth Model
Experiment #4, SDS, Metric Analysis of Bite Mark
Experiment #5, SDS, Making Bite Mark Evidence In Wax
Experiment # 6, SDS, Identifying bite Marks in Wax
Experiment # 7, SDS, Identifying Suspect by Matching Teeth Cast to, Teeth Bite Tray (Small & Medium), Tooth Development Diagram SDS, Figure 1, Tooth Eruption at 5 Years SDS, Figure 2, Gloves Magic Marker, Mould Material, Plaster Paris, Tongue Depressors, Plastic Cups, Measuring Cups, Seal-able Bags, Metric Rulers, Wax Bite Plates, Wax Bite Plane

ESF53519



Fabrics and Fibre Kit

Students perform four experiments analysing fabric and fibre types to learn to characterize them. First, students determine if each sample is animal, vegetable, mineral, or synthetic in origin by subjecting fibres to a burn test and evaluating fibres for protein and for the presence of sulphur. Then, students observe fibre samples to identify general microscopic characteristics and subject them to chemical solubility and stress and strain tests. After learning techniques for proper collection of fibre evidence, students test three unknowns to determine their identity. Includes instructional manuals and student worksheets. Required, but not included: microscopes, alcohol or Bunsen burners, matches, test tubes, 1-hole stopper, test tube clamp, and distilled water. Designed for 24 students working in groups of four. Meets national standards for grade levels 10-12.

Kit Contains:

Instructor's Manual, Student Manual, MSDS, Cotton Sample, Wool Sample, Carpet Sample, Glass Wool Sample, Nylon Sample, Rayon Sample, Acetate Sample, Unknown Sample #1, Unknown Sample #2, Unknown Sample #3, Wax Pencils, Metal Forceps
Plastic Forceps, Slides, Cover Slips, Toothpicks, Empty Dropper Bottles, Red Litmus Paper, Lead Acetate Paper, Hydrochloric Acid
Sodium Hydroxide, Sodium Hypochlorite, Dry-Cleaning Solution, Acetone, Mounting Media

ESF53520





Paper Trail

Introduce middle school students to the excitement of forensics with this age appropriate crime scene related document analysis kit. Students perform physical and chemical analyses of a variety of papers and inks using a number of techniques including chromatography, microscopy, and an alignment tool to analyse documents and handwriting. Students produce and retrieve hidden messages, and prepare forged and authenticated documents. Requires four to five class periods. Required, but not included: microscopes, 100 Watt desk lamps and/or hot plates, fresh lemon juice, spray starch, newspaper, scissors, water, white paper, and paper-clips. Designed for 24 students working in six groups of four. Meets national standards for grades 5-8.

Kit Contains:

Instructor Manual, Student Manual, MSDS, Alignment Tools, Paper Samples, Magnifying Glasses, Cotton Swabs, Chromatography Tubes, Chromatography Paper, Spray Bottles, Pencils, Pens, Ethanol Solution, Iodine Solution

ESF53521



Science Detective

This kit is designed to help younger students understand the scientific method through investigation, and to develop observation, interpretation, and organizational skills. Includes instructor's manual, transparencies, student data sheets, card game, "what's different" activity, and bread mould and plant growth project materials for a class of 24 students. Required, but not included: scented candle, scented spray, spray bottle, candy, ribbon, soil, bread, marker, masking tape, and paper. Extension activities provided in the Instructor's Manual. Meets national standards for grades 2-6.

Instructor Manual, Student Data Sheets, Lima Bean Seeds, Plastic Cups, Plastic Bags, Plant Fertilizer, Sodium Chloride, Washing Powder #1, Vinegar, Graph Paper

ESF53523



Robbery At Any Town Mall

Various types of trace evidence allow students to solve the crime presented in this hands-on CSI activity.

Using observation, experimentation, and interpretation, students will employ the scientific method to analyse hair, fibre, fabric, blood, fingerprints, and handwriting.

Both evidence and personal profiles intermingle to enable students to crack the case using deductive reasoning.

Includes instructional manual and reproducible student worksheets.

Required, but not included: microscopes, water bath, and glass test tubes with stoppers or caps.

Designed for 24 students working in six groups of four. Meets national standards for grade levels 7-11.

Kit Contains:

Instructor Manual, Student Manuals, MSDS, Silk Sample, Cotton Sample, Linen Sample, Polyester Sample, Wool Sample, Cat Hair, Human Hair, Dog Hair, Police Envelope, Suspect Envelope Randy, Suspect Envelope Martha, Suspect Envelope Paul, Suspect Envelope John, Signature Cards, Hand Lens, Cover Slips, Microscope Slides, Wooden Sticks, Red Litmus Paper, Tweezers, Toothpicks, Hema-Tag Label A&B, Hema-Tag Label Rh, Mounting Media, Anti A Serum, Simulated, Anti B Serum, Simulated, Anti Rh Serum, Simulated, Simulated Blood, Type A, Simulated Blood, Type B, Simulated Blood, Type O, Simulated Blood, Type AB

ESF53522



Ballistics : The Sacco & Vanzetti Case

Can your aspiring ballistics experts determine once and for all whether Sacco and Vanzetti committed this crime? Students reconstruct the shootings of the infamous Sacco and Vanzetti case and calculate projectile trajectories using a map of the gunshot evidence, ballistics blocks, and trajectory rods. Then, they recreate the crime scene using string and laser techniques. Using inactive dummy cartridges, fired bullets and casings, students learn to characterize ammunition. They use gunshot residue analysis to determine which suspects fired guns during the crime. Finally, each scenario is presented with evidence for students to argue their unique case in court. Includes complete instructor's manual, reproducible ballistics training handbook, reproducible lab experiments, instructions and documents for holding a mock trial, and six additional extension activities addressing the social and political issues surrounding the case. Designed for 24 students working in small groups. Recommended: stereo-microscope and a balance. Warning: Danger, kit contains lasers, avoid eye exposure. Product intentionally contains lead bullets and lead nitrate. Grades 7-12

ESF53524



ENVIRONMENTS



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ENVIROMENTS

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Environmental Extremes Kit

Train students to think like scientists and engineers using this complete introductory environmental studies unit. Eight experimental protocols lead students through 4-6 weeks of hands-on, scientifically sound experimentation demonstrating current environmental concerns using live plants and erosion models. Includes reusable supplies and instructions to simulate the conditions of acid rain, saline soils, drought, and erosion. Students actively learn proper scientific method, cost analysis, and the iterative cycle of engineering before they design and complete individualized projects. Ideal for biology, environmental studies, or agriculture courses. May be purchased with or without pH meters and digital scales. Includes a complete instructor's manual with reproducible student materials. Designed for 24 students. Targets Grades: 6-12. Acids are not included.

Kit Contains:

Instructor's Manual w/ Reproducible Student Data Sheets, Stirring Rods, Weigh Dishes, Markers, Graduated Cylinders, Flasks, Gloves, Parafilm, Rulers, Cups, Deli Containers, Potting Soil, Petri Dishes, Seeds, Sodium Chloride, Construction Paper, Masking Tape, Paper Towel Roll, Forceps, Magnifiers, Spoons, Write-N-Wipe Boards, Spray Bottle, 16 oz, Alcohol Wipe, 70%, Scoop, Stainless Steel.

ESE53627



Environmental Extremes Plus

Train students to think like scientists and engineers using this complete introductory environmental studies unit. Eight experimental protocols lead students through 4-6 weeks of hands-on, scientifically sound experimentation demonstrating current environmental concerns using live plants and erosion models. Includes reusable supplies and instructions to simulate the conditions of acid rain, saline soils, drought, and erosion. Students actively learn proper scientific method, cost analysis, and the iterative cycle of engineering before they design and complete individualized projects. Ideal for biology, environmental studies, or agriculture courses. May be purchased with or without pH meters and digital scales. Includes a complete instructor's manual with reproducible student materials. Designed for 24 students. Targets Grades: 6-12. Acids are not included.

Kit Contains:

Instructors Manual w/ Reproducible Student Data Sheets, Stirring Rods, Weigh Dishes, Markers, Graduated Cylinders, Flasks, Gloves, Parafilm, Rulers, Cups, Deli Containers, Potting Soil, Petri Dishes, Seeds, Sodium Chloride, Construction Paper, Masking Tape, Paper Towel Roll, Forceps, Magnifiers, Spoons, Write-N-Wipe Boards, Spray Bottle, 16 oz, Alcohol Wipe, 70%, pH Meter, Pocket Pen, Digital Scale, Digital, 2000Gx0.1G, Scoop, Stainless Steel.

ESE53626



Volcanic Eruptions

A hands-on volcano model building project complete with safe, simulated lava eruptions. Learn all about types of volcanoes, parts of a volcano, how volcanoes function, and precious gems volcanoes may produce. Building materials are appropriate for elementary and middle school classrooms. Also investigate underwater volcanoes with the included demonstration. Baking soda and vinegar required but not included. Kit includes enough materials for 24 students working in six groups of four. Meets national standards for Grades 3-8.

ESE53628

Ocean Trash Can

This exercise examines various types of pollutants, their sources, and their effects on the ocean, its inhabitants and the surrounding coastline. Students classify ocean pollution into five basic categories; debris, toxins, dissolved nutrients, particulates, and oil. They model the effects of ocean pollution with activities examining a variety of topics: the effect of the pH of various liquids on calcium carbonate; the effects of dilution, buffering capacity, salt and acid runoff; acid rain; the ability of water to purify itself; and oil spill clean-up. As a final project, students design and write a newsletter containing articles with pertinent pollution topics such as current laws, pollution, effects, bioaccumulation, and prevention. Requires four class periods plus research time. Required, but not included: six 1 gallon milk containers. Designed for 24 students working in six groups of four.

Kit Contains:

Instructor Manual, Student Data Sheets, Plastic Cups, Cupcake Liners, Sand, Tums, pH Strips, Radish Seeds, Sea Salt, Styrofoam Peanuts, Feathers, Yarn, Plastic Bags, Cotton Balls, Animal Fur, Wire

ESE53625



Seawater Analysis

By volumetric titration, students analyse the chloride content of seawater samples from the Atlantic Ocean, the Pacific Ocean, and the Gulf of Mexico. The constant ratio of dissolved substances in sea water allows the concentration of salt and other elements to be extrapolated from the chlorine concentration. Student may obtain additional water samples for analysis, as the materials included are sufficient for the titration's to be repeated three times. Designed for 24 students working in six groups of four. Required, but not included: 25 ml burette. Contains silver nitrate. Grades 10-12

ESE53629



Amazing Waves

Seven activities take students through the examination and observation of waves, wave properties, and their influence on the coastline. Includes three demonstrations (types of waves, wave creation, and wave action) two hands on activities (regarding wave motion, sediments, and beach erosion), a research and presentation project applying science and engineering to societal issues, and a written assignment with art connections. Special emphasis on Influence of Engineering, Technology, and Science on Society and the Natural World; Human Impacts on Earth Systems; Ecosystem Dynamics, Functioning, and Resilience; The Roles of Water in Earth's Surface Processes; and Problem Solving. Requires computers with internet connections for research projects and a document projector (optional). Designed for 24 students working in 6 groups of 4. Grades 5-9

ESE53630



Make An Ocean

This project allows students to model four ocean ecology scenarios as they investigate the effect of farm and industrial waste on marine life. Brine shrimp populations, water pH and water density are monitored throughout the progression of ecological contamination, water treatment, and recovery. During the study, students learn about life cycles and representative sampling. The kit makes an ideal class project or can be completed in small groups. Materials included allow the experiment to be repeated up to five times. Required, but not included: five 1 gallon containers, balance or scale, and a flashlight. Grades 4-6

ESE53633





Ocean Science

The purpose of this exercise is to examine the physical and chemical properties of seawater and learn how these properties affect the ocean currents and environments. Students visualize convection currents as they track the effects of density, temperature, pressure, and salinity. They learn the effects of heat from the sun, precipitation, evaporation, freezing and thawing of sea ice and the inflow of fresh water from rivers. Students extrapolate what they learn and further research to determine the effects of three scenarios on the surrounding water and land environments and inhabitants: 1) a new dam being built on a large river that flows into a bay, 2) melting of the polar ice cap, and 3) a global temperature drop to 0°C. Then they present their conclusions in a panel discussion. Required, but not included: refrigerator or freezer, ice, Thermometers, and 18 large beakers or jars. Designed for 24 students working in six groups of four. Grades 5-9

ESE53631

The Physical & Chemical Resources Of The Ocean

This kit is designed to examine salt, not only as the most obvious property of seawater, but also as one of its most valuable chemical resources and a critical component in the creation of ocean currents. Students learn about the varying salt concentrations of seawater and its amazingly uniform composition. They also learn how salt can be removed from seawater. Experiments include: Determining Salinity by Evaporation, Determining Salinity Using a Hydrometer, Desalination by Freezing, and Desalination Using a Solar Still. Allow five class periods. Required, not included: refrigerator or freezer, hot plate, balance (x .01g), chloride/salinity test kit, and laboratory glassware. Designed for 24 students work in groups of four. Grades: 9-12.

ESE53632

Human Activity & Environment

Students study food web relationships and how natural and human induced changes in the environment such as severe storms, drought, floods, housing developments, road salt, fertilizer runoff, and fire upset the balance of ecosystems. Nature's ability to restore balance between the number of different types of organisms, such as predators and prey, in natural habits of the community are demonstrated. Activities include, The Salted Roads, The Runoff, Flooded Farms, and The Forest Community. Conservation is discussed in terms of using natural resources wisely to help keep the natural balance. Required, but not included: fresh celery, dominoes, recycled milk jugs or flower pots, beakers or jars, yeast, salt, and sugar. Designed for 24 students working in six groups of four. Grades 5-8

ESE53634

The Reef Restaurant

The purpose of this exercise is to study the effects of certain environmental conditions on the coral reef and its associated food web. The lab teaches the students about natural resources, environmental quality, and natural and human induced hazards (including specific sources of pollution). Includes two activities, allow three class periods. Required, but not included: clear plastic 2L bottles, liquid fertilizer, and small light sources. Designed for 24 students working in six groups of four. Grades 5-9

ESE53635





Soil Analysis Kit

Students gain hands on experience identifying, characterizing, and describing Earth Materials through seven different experiments determining texture, composition, particle size range, density, permeability, porosity, and pH. They learn how soils are formed, assess properties important in determining agricultural and commercial use, and discover characteristics important in assessing soil drainage, erosion, and fertility. The kit includes loam, silt, clay, sandy soil, topsoil, fine sand, coarse sand, and gravel so that classic comparisons may be made. Includes sieve sets and all required supplies for testing, complete instructor's manual with worksheets, assessment materials, and answer keys. Packaged in a reusable plastic tote. Balance recommended. Grades 7-12

ESE53636



Soil Analysis Refill

Soil Analysis Refill. Grades 7-12

ESE53637

Soil Test Apparatus

Use to measure soil pH.

Consist of :

- Test Tube Ø 16 x 150 mm 4 pcs
- Test Tube Ø13 x 100 mm 6 pcs
- Dropping Pipette 15 cm, Red Bulb 2 pcs
- Barium Sulphate (100 g/bottle) 1 pc
- Aquadest (200 ml/bottle) 1 pc
- Spoon, Stainless Steel 1 pc
- Universal Indicator (10 booklet/pack) 1 pc
- Test Tube Brush Ø 24 mm 1 pc
- Manual Book Soil Test Apparatus 1 pc
- Wooden Box 1 pc

Dimension : (L) 20.00 x (W) 19.00 x (H) 19.00 cm
Weight :1.330 kg



ESE53641





Igneous Basic Collection Set/10

This Igneous Rocks Collection includes a set of 10 specimens enclosed in a handy, plastic storage container. The included rock identification chart, complete with images and a brief description will help kids better understand how Igneous rocks were created. A perfect starter set for the young budding geologist! (Actual dimensions: 8x4.68x1, 1 lb.)

ESE53660



Rock Collection Igneous Rock

The rocks /minerals were placed in a box and given a cover. Each rock / minerals sample is placed on the bulkhead so that no scattered rocks in the box

Size :

- Rocks/Minerals : ? 3 x 3 x 3 cm
- Storage box : 230 x 170 x 37 mm
- Material : Storage box made from plastic
- Equipment with a map collection of minerals / mining ores for ease in identifying

Consist of 8 samples Igneous Rock :

1. Basalt
2. Granite
3. Pegmatite
4. Obsidian
5. Dacite
6. Diorite
7. Peridotite
8. Pumice

Dimension :(L) 23.00 x (W) 17.00 x (H) 4.00 cm

Weight :0.355 kg

ESE53638



Igneous Rock Collection

Contains 15 representative specimens of intrusive and extrusive igneous rocks, each approximately 1-1/2" x 1-1/2". Includes key and chart.

ESE53671



Metamorphic Basic Collection Set/10

This Metamorphic Collection includes a set of 10 specimens enclosed in a handy, plastic storage container. The included rock identification chart, complete with images and a brief description will help kids better understand how metamorphic rocks were created. A perfect starter set for the young budding geologist!(Actual dimensions: 8x4.68x1, 1 lb.)

ESE53659



Metamorphic Rock Collection

Contains 15 representative metamorphic rock specimens, each approximately 1-1/2" x 1-1/2", number-coded in a compartmented container. Includes key and chart.

ESE53672



Rock Collection Metamorphic Rock

The rocks /minerals were placed in a box and given a cover. Each rock / minerals sample is placed on the bulkhead so that no scattered rocks in the box.

Size :

Rocks/Minerals : 3 x 3 x 3 cm

Storage box : 230 x 170 x 37 mm

Material : Storage box made from plastic

Equipped with a map collection of minerals / mining ores for ease in identifying

Consist of 10 specimens of metamorphic rock:

- | | |
|----------------------|-----------------|
| 1. Home blend Schist | 6. Slate |
| 2. Black Marble | 7. Gneiss |
| 3. Red Marble | 8. Micca Schist |
| 4. Phyllite | 9. Serpentinite |
| 5. Quartzite | 10. Pure Marble |

Dimension :(L) 23.00 x (W) 17.00 x (H) 4.00 cm

Weight :0.370 kg

ESE53640



Sedimentary Basic Collection Set/10

This Sedimentary Collection includes a set of 10 specimens enclosed in a handy, plastic storage container. The included rock identification chart, complete with images and a brief description will help kids better understand how sedimentary rocks were created. A perfect starter set for the young budding geologist!(Actual dimensions: 8x4.68x1, 1 lb.

ESE53661



Sedimentary Rock Collection

Contains 15 representative sedimentary rock specimens, each approximately 1-1/2" x 1-1/2". Includes key and chart.

ESE53673



Rock Collection Sedimentary Rock

The rocks /minerals were placed in a box and given a cover. Each rock / minerals sample is placed on the bulkhead so that no scattered rocks in the box.

Size :

Rocks/Minerals : 3 x 3 x 3 cm

Storage box : 230 x 170 x 37 mm

Material : Storage box made from plastic

Equipped with a map collection of minerals / mining ores for ease in identifying

Consist of 10 specimens of sedimentary rocks:

1. Limestone
2. Clay
3. Gypsum
4. Sandstone
5. Limonite
6. Breccia
7. Shale
8. Tufa
9. Travertine
10. Conglomerate

ESE53639



Rocks & Minerals Basic Collection Set

This Rocks & Minerals Collection includes a set of 24 specimens (6 each of Metamorphic, Sedimentary, Igneous, and Minerals) enclosed in a handy, plastic storage container. A rock identification chart, complete with images, is included to help kids categorize their collection. A perfect starter set for the young budding geologist! (Actual dimensions: 6.25x4.75x.63; .32 lbs.)

ESE53663





Mineral Kit, Eduscience Prim (Set Of 1)

A collection of 12 specimens to represent igneous, sedimentary, metamorphic rocks and minerals. Designed for the basic earth science studies, earth materials and characteristics, and properties of various types of rocks.

Each specimen is glued on 30 x 40 mm plastic sheet and equipped with number and identification label

There are 3 extra compartments and plastic sheets in the box for rocks locally collected rocks by the students.

Dimension : (L) 22.70 x (W) 17.30 x (H) 5.50 cm

Weight : 0.780 kg

ESE53642



Mineral Study Kit Basic

Students learn to identify these 15 common minerals by observing and testing their physical properties. Activity guide, magnifying glass, streak plate, and nail included.

ESE53667



Lustre Collection

Recognition of the kind and degree of lustre of some minerals is an aid to identification. This collection provides examples of both metallic and non-metallic types of lustre. 15 specimens, approximately 1-1/2" x 1-1/2", number-coded. Includes insert.

ESE53670



Fracture Collection

The important types of fracture are demonstrated with this collection. Six specimens approximately 1-1/2" x 1-1/2", number coded.

ESE53668



Basic Rock Collection Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes granite, sandstone, shale, limestone, marble, basalt, gabbro, amphibolite, metamorphic shale. ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*20 (±2)

ESE53791



Crystal Collection Basic Collection Set/9

This set of 9 specimens illustrating isometric, hexagonal, tetragonal, orthorhombic and monoclinic crystal systems.

ESE53664



Metallic Mineral Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes CHALCOPYRITE (Copper source) , MAGNETITE (Iron source) , BAUXITE (aluminium source) , SZELET (tungsten source) , CASTERIDE (tin source) ; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped. Block Size :140*64*20 (±2)

ESE53792



Minerals Basic Collection Set/10

This Minerals Collection includes a set of 10 specimens enclosed in a handy, plastic storage container. The included rock identification chart, complete with images and a brief description will help kids better understand how minerals were created. A perfect starter set for the young budding geologist! (Actual dimensions: 8x4.68x1, 1 lb.)

ESE53662



Metal Minerals, Metals and Alloy Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen includes several different plates of metals and their alloys: magnetite, hematite, zinc, bauxite, chalcopyrite, titanium ore, pig iron, iron alloy, galvanized sheet, aluminum alloy, copper alloy, titanium alloy; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :164*78*20 (±2)

ESE53793



Mineral Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes Limonite, Tungsten Ore, Cinnabar, Aluminum Ore, Cassiterite, Copper Ore, Dolomite, Feldspar And Hematite; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*20 (±2)

ESE53794



Rock Tumbler

12-lb. capacity tumbler with rubber hexagon barrel for quiet operation. Overload protected, fan-cooled motor. 220V/115V, .67 amps, 1/75-hp motor.

ESE53805





Granite Specimen

Granite Specimen 45x30mm

ESE53700B



Diorite Specimen

Diorite Specimen 45x30mm

ESE53700A



Basalt Specimen

Basalt Specimen 45x30mm

ESE53700F



Rhyolite Specimen

Rhyolite Specimen 45x30mm

ESE53700E



Glaucophane Specimen

Glaucophane Specimen 45x30mm

ESE53700



Hornblende Specimen

Hornblende Specimen 45x30mm

ESE53700C



Natural Material Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes Animal Paperweight Real Seed Root Fiber Paper Embedded Specimen Mineral Rock Flower Specimen Desk Paperweight Science Educational

Artificial Materials, Natural Materials, Seed Spraying Method, Root Types, Fiber, Paper, Minerals, Rocks, Metallic Minerals, Soil, Florescence, Garland Durable, clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*20 (±2) Weight : 1300 g

ESE53795



Artificial Material Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Includes In a transparent plastic block, 8 samples of plastic materials are sunk, produced or processed by human activity: ceramics , metal , glass , MDF, plastic , paper , fabric , cement clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*20 (±2)

ESE53796

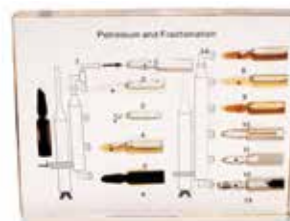
Coal and Carbonization Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes lignite , hard coal , anthracite ,gas , carbon fiber ,rubber , coke , ammonia, naphthalene, fertilizer,pesticides, medicine, dye, coal tar; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :180*140*24 (±5)

ESE53800



Petroleum and Fractionation Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes Petroleum, liquid gas, gas, kerosene, light diesel oil, heavy diesel oil, atmospheric distillation furnace, medium diesel, light technological oil, heavy technological oil, paraffin, petrolatum, asphalt, vacuum distillation furnace; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :180*140*24 (±5)

ESE53799



Paper Samples Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes copperplate, wrapping paper, corrugated paper, copying paper, newsprint, bristol, writing paper, book paper; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :164*78*10 (±2)

ESE53798



Textile Samples Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Specimen Includes silkworm cocoon and silk, cotton and cotton fabric, linen and linen cloth, wool and woolen fabric, chemical fiber and synthetic fabric; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :164*78*20 (±2)

ESE53797



Cleavage Collection

Cleavage is a readily recognizable property of some minerals and follows the internal crystal structure of that mineral. Terms used in crystallography apply to the cleavage plans. 6 specimens approximately 1 1/2" x 1 1/2". Includes insert.

ESE53669



Tenacity Collection

Various terms such as brittleness, elasticity, flexibility, malleability and selectivity are used to describe the particular property of some minerals. Six specimens 1-1/2" x 1-1/2".

ESE53678



Moh's Scale Of Hardness W/ Diamond

The Moh's Hardness Scale collection is set of 10 specimens in their order from the softest (#1 Talc) to the hardest (#10 Diamond included). There are indicators on the card which instruct the students what will affect the surface of each of these specimens. This economy version of the Hardness Collection has specimens measuring 1/2" to 3/4" in size.

ESE53666



Moh's Scaled Of Hardness Mounted

The Moh's Hardness Scale collection is mounted on a 5 1/2" X 7 1/8" full colour card-stock which holds 9 specimens in their order from the softest (#1 Talc) to the hardest (#10 Diamond – not included). There are indicators on the card which instruct the students what will affect the surface of each of these specimens. This economy version of the Hardness Collection has specimens measuring 1/2" to 3/4" in size. The card is packaged in a resalable zip lock bag.

ESE53665



The Rock Cycle Chart Only

This hands-on project enables students to examine and identify individual rock specimens as a study unit in earth science. A graphic representation of how the major families of rocks form the dynamic process called the rock cycle. Igneous, sedimentary and metamorphic rock specimens are mounted on this enlarged 18" x 24" multi-color chart that comes complete with a wood frame

ESE53676





General Fossil Collection

A selection of 15 fossils to illustrate the major life forms present throughout geologic history. A descriptive key sheet and geologic time chart introduces students to basic fossils and match the fossil to the era

ESE53679



Basic Fossil Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study.

Clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped.

Block Size :140*64*20 (±2)

ESE53760



Geological Time And Fossils Chart

This completely revised multicolours chart depicts the entire geologic time scale with most current geologic dating information. Representative fossils from the corresponding geologic periods are mounted on the chart. Chart size, 18" x 24" and comes with a wood frame.

ESE53674



Life On Earth - A Fossil History Model

Life on Earth – A Fossil History is an exciting product designed to help students understand how life has changed over vast periods of geologic time. Constructed of durable vinyl, the 23.5" X 24.5" colourful 3-D model allows students to correlate 21 replica "fossils" to realistic looking rock layers. Illustrations and "fossil" include both marine and terrestrial life forms from the Pre-Cambrian through the present. Eons, eras, periods, epoch and years are clearly shown on the chart. The Teacher's Guide includes: classroom activities, pre/post tests, reference materials, and glossary.

ESE53675

Geology Models, Set/8

Discover the complexities of geological facts with this series of eight fully detailed geology models. In addition to surface formations, cross-sectioning depicts subsurface structures. Models are accompanied by a Teacher's Guide, numerically keyed to each individual model, allowing focused study of specific features. Each model is 14"x 12" and is sturdy enough for student handling or wall display.

8 Models Included:

- Coastline of Submergence
- Volcanism
- Fault Block Mountains
- Alpine Glaciation
- Dome Mountains
- Continental Glaciation
- Folded Mountains
- Coastal Plain



ESE53652



Geology Models, Set/4 I

Dispel the puzzling complexity of geological facts with this series of Four detailed geology models. In addition to surface formations, cross-sectioning depicts subsurface structures. Accompanying Teacher's Guide is numerically keyed to each individual model, allowing focused study of specific features. Each model is 14" x 12" and is sturdy enough for student handling or wall display. Models 1-4.

ESE53653



Geology Models, Set/4 II

Dispel the puzzling complexity of geological facts with this series of four detailed geology models. In addition to surface formations, cross-sectioning depicts subsurface structures. Accompanying Teacher's Guide is numerically keyed to each individual model, allowing focused study of specific features. Each model is 14" x 12" and is sturdy enough for student handling or wall display. Models 5-8.

ESE53654



Landforms Discovery Pack W/ CD

Use this kit for the entire class or set up a self-directed activity centre. Eight 3-D models form a landscape showing geologic and geographic details. The accompanying CD's or tapes provide detailed scientific and cultural information in a field trip format. The CD's are keyed to numbered features on the various models. Discovery pack includes 8 models, 7 tapes or 2 CD's, student workbook, Teacher's Guide and convenient storage unit.

ESE53655

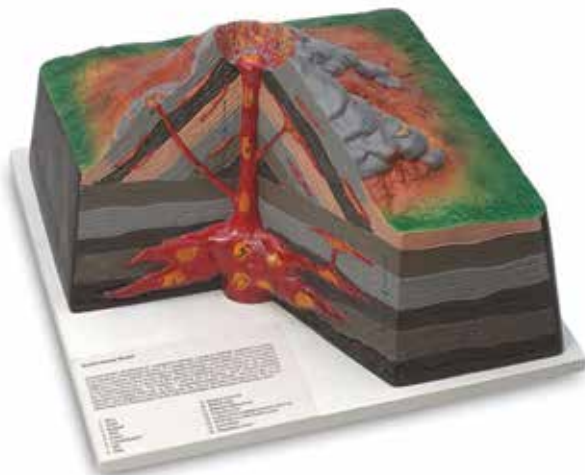


Alpine Glacier Model

These models will give students the opportunity to observe the effects of glacial movement without having to endure glacial time. First model depicts a glacier in its active stage, while the second model shows post-glacial conditions. Using the second model, students can create their own glacier using ice and sand to observe glacial melting and deposition of glacial till. Each model is 18" x 24", formed in high impact plastic. Teacher's Guide included.

ESE53656





Volcano Model

Beautifully detailed stratovolcano and composite volcano model. Illustrates the various crusts, lava tube, volcano formation, and step sided formation of cone shape. Section showing flow of magma. Made of unbreakable material, coloured. Showing vertical section for students to view the path that magma takes on its upward course the volcano. Mounted on base.

Measures 410mm. L x 410mm. W x 20mm. H.

ESE53643

Volcano Model With Cross Section

There's nothing like an erupting volcanic eruption to get your child fired up about science! Create your very own erupting volcano with this unique no assembly required model. Includes an easy-to-prepare lava recipe, a 13" clear plastic tray and a removable tube that allows for quick clean up. Detailed cross-section shows the inside of the volcano. Includes a fact-filled Activity Guide, with all the information kids want to know about volcanoes.

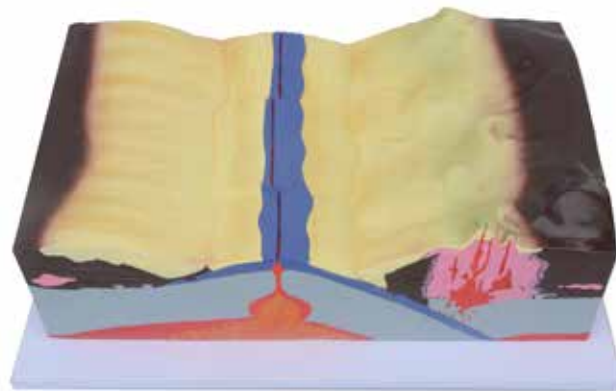
ESE53680



Fold and Fault-age Model

Students at all levels can visualize the causes and forces that shape the earth's surface. In case of compression or stretching of stone layers, there may be folding. In case of multiple fences or breakages, blocks can be moved up (Horst) or down (grab). The model illustrates this in an excellent way. You can also show how oil traps are formed. The model is made of strong, soft plastic (PVC). Size: 53 x 38 x 30 cm

ESE53645



Volcano Model

Model of an underwater volcano that forms a new seabed. The model shows how new seabed is made and what happens when earthquake collides. It also shows folds and faults. The model is made of strong, soft plastic (PVC). Dimensions: 53 x 38 x 25 cm

ESE53644



Stream Table Kit

Basic and smaller version of the Hydro-Geology Stream Table, this kit includes a plastic tray, drain trough, tray support and siphon tube. This economical stream table provides students the chance to create their own landforms and follow the changes in the stream as it ages. Includes 4 page Teacher's Guide including 3 activities. Great for use in the classroom or as an outdoor activity. Also is used with the ESCP program. Sand not included. One, 50lb. pail of sand is sufficient. 14 x 46 x 2.5

ESE53657



Fold, 8 Sets Model

This Eight-piece plastics model is useful for illustrating the basic geologic concepts of folds and faults found in Earth's crust. The perfect classroom tool for introducing students to structural geology. Hand-painted with easily distinguished colors.

The model is securely mounted on a base, providing stability for educational or display purposes.

Dimensions : 55*38*15cm Weight : 3500g

ESE53682



Environmental

Earth Model Cross Section 30Cm

can be divided into 9 parts. Suitable for intuitive teaching aids for teaching the internal structure of the earth in the school's physical geography teaching, which is conducive to students' understanding of the knowledge of the earth. diameter of 30cm, it shows that the internal structure of the earth is a concentric circle structure, which differentiates into core, mantle, and crust from the center of the earth to the surface. Made Of PVC, Weight: 7KG.

ESE53681



Globe LED Illuminated Cartography

The classic educational globe. Detailed political cartography: the countries are marked by different colors. Classic educational globe. Detailed political map: each country depicted in a different color. Geographical globe suitable for teaching. Political Cartographies: The colors are marked with different colors, Diameter 30 cm, Illuminated with LED light, 220V

ESM61991



Earth Model Cross Section Dia 13 cm

Bring the deep layers of our world to light with this unique foam model. The outside surface illustrates both continents and oceans with raised features. Once separated, children discover facts of planet Earth's core. Each brightly colored hemisphere shows its layers, temperatures and depths. Activity and fact guide included. Diameter : 13 cm

ESE53683





Soil Type Basic Specimen

It has been embedded in Transparent Epoxy Resin Block for observation and study. Specimen Includes Red soil, black calcium soil, cement soil, brick red soil, purple soil; clear Epoxy allows close up viewing from all angles. Epoxy block will Not break even if it is accidentally dropped. Block Size :140*64*20 (±2)

ESE53696



Soil Types Kit

kit of 12 reference samples, for teaching geography, forensics, science and agriculture.

Includes :

Brown Earth , Silt Soil , Clay Soil , Peat soil) , Calcareous Clay , chalk soil , illuviated sandy horizon , Calcareous Soil , Man made loam ,Tundra Soil , Sandy Soil , Mountain Soil

ESE53694

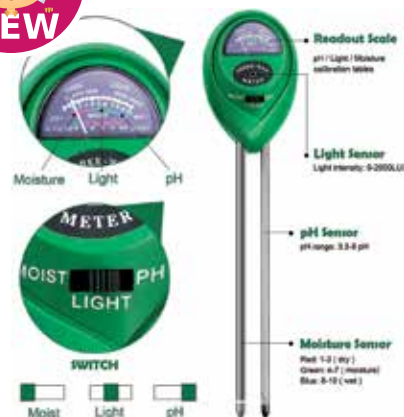
Soil Tester

Soil tester can test the humidity, pH value and light level of plants, provide accurate plant soil information, quickly help you master professionally when to water plants, control the pH value in the soil and whether Need to extend the sunshine time and irradiation intensity. Advanced double-needle detection technology greatly improves the speed and accuracy of detecting and analyzing soil moisture and pH, passing detailed information to the conductor to display accurate values. It can more accurately select a suitable growth environment for plants.

Our tester does not require batteries or power, so you can use it anytime indoors and outdoors. To use, simply insert the tester into the soil to read the value. Please note: This soil tester cannot be used to test the pH of any other liquids (pure water and other liquids such as vinegar, fruit juice). Compact and Portable

If the soil is too dry and the soil pointer won't move, water before testing.

Dimensions: 26.5*4*6.5 cm. Weight : 105 g



ESE53693



Hydro-Geology Stream Table With Cart & Accessories

Capture students' attention as they learn first hand the impact of water on the development of land formations. This stream table allows the class to create actual streams, lakes and related landforms. Stream cut-offs, piracy, deltas, beaches, land erosion and many other phenomena can be created. High impact, 26"W x 66"L x 6"D plastic stream table is virtually unbreakable and easy to clean. Once water and sand are added, the unit is completely self-contained. Two separate stream flows provide for simultaneous study of separate streams. Flow rates and water levels are easily controlled.

ESE53658



Seismograph Model

Our Seismograph Model gives students a better understanding of how earthquakes are measured and calculated to determine intensity. This small table top unit will captivate your students as they try to top the Richter Scale. Simulate your own earthquakes and the seismograph will accurately record their intensity. The kit comes complete with a detailed Teacher's Guide

ESE53677



Telescope
Telescope

ESI61415



Telescope
Telescope

ESI61417



Telescope
Telescope

ESI61414



Telescope
Telescope

ESI61418



Telescope
Telescope

ESE53651



Telescope
Telescope

ESI61419





Environmental Engineering Oil Spill Management

Students simulate deep-ocean and beach crude oil spills as they engage in the work of an environmental engineering team using models to learn the physical and chemical properties of oil and experience how scientists approach oil spill disasters. This comprehensive kit not only teaches environmental impact, basic oil biology, micelles structures, and chemistry concepts such as hydrophobic and hydrophilic interactions, but has students simulating basic oil containment and removal techniques using their own oil spill models. Includes a quantitative analysis of absorbent materials, hands on skimming and dispersant activities, and an experimental introduction to the concept of bioremediation. Students work as a team to research and systematically design an oil spill solution, use the iterative cycle to improve their solutions, and learn to argue their points of view. Great for applying knowledge and teaching higher order thinking skills including creative thinking, reasoning, decision making, and problem solving. Designed to accommodate 24 students working in groups of two. Plan to spend several weeks on the unit.

Kit Contains:

Instructor Manual w/ Reproducible Student Data Sheets
 , Test Tubes/Stoppers, Vegetable Oil, Stopwatch, Test Tube Rack, Graduated Cylinders, Corn Syrup, Food Colouring, Empty Bottles w/ Caps, Potting Soil, Aluminium Pan, Sand, Gravel, Pipettes, Spoons, Paper Towel Strips, Tubing, Fabric (Cotton, Polyester), Deli Container, Thermometer, Sugar Packet, Scale, Digital, 500g, Yeast Packet, Strainer, Dish-washing Liquid, Cocoa Powder, Scoop, Stainless Steel, Gloves, Nylon Stocking, Cotton Balls, Beaker, Copy Paper, Shredded, Scissors, Weigh Dish, Mixed Seashells,

ESE53812

Water Testing Saddlebag

Our unique water testing saddlebag is perfect for those who are interested in environmental sciences. It may be used to test for the effects of water pollution in fresh bodies of water. This saddlebag is ideal for outdoor use as it is designed to be worn over the shoulder, on the side of the body for safety and easy access. Each test kit has enough materials to perform over 100 tests and can be used for a class of 30 students or more. Step-by-step laminated picture instructions, an instructor's manual with background information, reproducible student data sheets, and colour-coded reagents are included.

Kit Contains:

Instructor Manual,
 Total Alkalinity Test Kit 1 drop = 10 ppm as CaCO_3
 Acidity Test Kit 1 drop = 2 or 10 ppm as CaCO_3
 Total Hardness Test Kit 1 drop = 10 ppm as CaCO_3
 Dissolved Oxygen Test Kit (0-10 ppm)
 25 Nitrate Test Strips (0-50 ppm)
 100 pH Test Strips (2-9 range)
 10 pH Colour Cards

ESE53813

Water Kit (Set Of 10)

The water kit is ideal for use by Primary School students, aged 6-12 years. The student will be able to understand the basic properties of water.

Versatility of the kit enable the students to perform experiments using their own ideas.

Consist of :

Beaker Plastic 10 pcs
 TRANSPARENT Plastic Hose OD = 10, ID = 7 mm, p = 1200 mm 10 pcs
 Metal Sheet # 0.2 x 60 x 60 mm 10 pcs
 Metal Vessel # 0.2 x 60 x 60 mm 10 pcs
 Plasticine 25 mm 10 pcs
 Dropping Pipette ? 6 x 75 mm 10 pcs
 Bottle 330 ml (Clear Plastic, Narrow Mouth and Cap) 10 pcs
 Board # 5 x 150 x 200 mm 10 pcs
 Box Corrugated Plastic 410 x 280 x 191 mm (# 3 mm, Green colour) 1 p

Experiment topics :

Basic concept of horizontal plane
 Water balance
 Flow of water
 Condition of an object in water : floating, sinking and to be suspended
 Dimension : (L) 42.00 x (W) 30.00 x (H) 20.00 cm
 Weight : 2.505 kg

ESE53814





Weather Model

Combination with a detailed Teacher's Guide, this 16" x 12" x 3" 3-D model will help students understand weather fronts and other meteorological concepts. Students can conduct detailed studies of air mass structures, cloud types, precipitation, temperatures, pressure and warm and cold fronts. Building upon this base of information, direction and speed of fronts can be measured, giving students the option of forecasting weather conditions for specific times and locations.

ESE53817

Cloud Model Activity Set

Our 3-D model promotes basic understanding of cloud types in the classroom or outdoors, in addition to science and math skills. Removable labels let students identify cloud structures and altitudes on 24" x 18" model. Includes 3-ring binder with glossary, key, black-line master and a full-colour overhead transparency

ESE53815



Water Cycle Model (Includes Lesson Plan)

Make it rain in your classroom! Students can duplicate the individual processes of the water cycle (evaporation, condensation and precipitation) with this ingenious model.

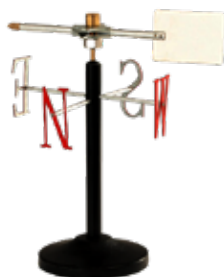
ESE53818



Evaporation Kit

The Evaporation Kit is designed to show the variability of evaporation rates and the factors which cause these variations. The kit enables students to draw conclusions as to how temperature, humidity, air movement, and surface area affect evaporation.

ESE53820



Wind Van

A simple device for determining the direction of flow of wind. Comprises a large arrow mounted on a metal rod with bearing. Mounted on top of steel pivot and aligns itself along the wind. Complete assembly mounted on a metal pillar that carries four arms terminating in the compass cardinal point with symbols marked N E W S

ESE53829



Teaching Tornado Model

Every classroom needs a Teaching Tornado! Finally, weather related phenomenon comes right into the classroom. Your students will love this demonstration model that teaches the principles of how tornadoes form. Students will learn about how a strong up draft is important, about convergence and rotation, funnel speed and how it is related to funnel width, and many more exciting tornado facts! Guide includes 7 fascinating experiments. Dry ice is not necessary to complete this experiment. Assembly time is approximately 30 minutes.

ESE53816



Water Cycle Study Cards, Set/10

Water is not only the most significant liquid on Earth, it is also one of the most unusual. Help your students understand the properties of water with this set of 10, 8 1/2" x 11" study cards.

ESE53819



Air Pollution Kit

Using a controlled environment and a common air pollutant, your students will observe the direct effect sulphur dioxide has on plants. Squash and marigold plants are germinated and then placed in an SO₂ saturated environment where growth is monitored and recorded. This kit includes one activity that is conducted for 5 days. Teacher's guide and reproducible student worksheets are also included.

ESE53821

Anemometer Simple

This small anemometer is perfect for younger students to use in determination of wind speed. Cups are mounted on horizontal arms extending from the axis with one red cup being used to determine the number of rotations. Made of corrosive resistant materials, the unit is perfect for prolonged outdoor use.

ESE53825





Weather Station Basic

weather station right in your classroom with these durable meteorological instruments. Students can measure and record barometric pressure, relative humidity, and air temperature on a daily or hourly basis, and record the trends, averages, and highs and lows. The sturdy carrying case holds a barometer, hygrometer, and Celsius and Fahrenheit thermometer, as well as three stands for use of the instruments individually. The activity guide explains in detail how to use each 3 in. dia. instrument.

ESE53832

Ecology and weather kit - Standard Kit

Selection of weather watcher equipment
Complete with weather register to record measurements Supplied in robust carry case with full operating instructions
Contents: · Mason's hygrometer Gilt dial barometer, Digital max min thermometer, 150mm wood wall thermometer, Rainfall sprinkler measure, Weather register, Weight: 954g (including 505g case)
Dimensions: 320mm x 280mm x 119mm



ESE53833



Wall Thermometer

Sustainable wood wall thermometers sourced from forests managed to strict environmental, social and economic standards
Temperature range: -20 to +50°C/-10 to +120°F Divisions: 1°C/2°F - Accuracy: +/- 1.0°C @ 10°C
Product material: Wooden mounting with kerosene filled glass tube
Dimensions : 150 x 35 x 8mm - Weight: 29.5g

ESE53863

Wall Room Thermometer Plastic

Plastic wall thermometer with clear, black printed scale on white moulding. Suitable for indoor and outdoor use, this thermometer is ideal for use in the home or garden.
Ideal for customer's own branding - click enquire now to submit a request
Suitable for indoor and outdoor use Range: -20 to +50°C&F

ESE53860



Rain Gauge Plastic

100mm diameter rain gauge - Measuring in inches & mm
Rainfall capacity up to 400ml - Supplied with rainfall charts - Replacements available
Range: 0 to 50mm / 0 to 2in Divisions: 0.5mm / 0.05in
Product Material: Crystal Styrene

ESE53836

Anemometer Digital

type J/K Temp.
Air velocity and air Temp. measurement : 0.4 to 25.0 m/s, ft/min., km/h. knots, mile/h.
;Type K thermometer : -200 to 1300 °C.;Type J thermometer : -200 to 1100 °C.
Low friction ball-bearing vane.;Separate probe, high reliability.
DC 9V battery (006P).
Meter size : 135 x 60 x33 mm

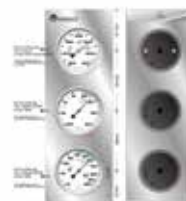
ESE53826



Weather Station Set

weather station right in your classroom with these durable meteorological instruments. Students can measure and record barometric pressure, relative humidity, and air temperature on a daily or hourly basis, and record the trends, averages, and highs and lows. The sturdy carrying case holds a barometer, hygrometer, and Celsius and Fahrenheit thermometer, as well as three stands for use of the instruments individually. The activity guide explains in detail how to use each 3 in. dia. instrument.

ESE53831



Hygrometer Masons

Simple form of psychrometer
Easy to measure the amount of water vapour Measures difference between wet & dry temperature - Supplied complete with chart and instructions to determine %RH
Case: Polypropylene
Scale: Polystyrene Reservoir: Polyethylene Glass Tube: Kerosene filled

ESE53838



Whirling Hygrometer with folding handle Uses the 'wet' and 'dry'

principle to measure Relative Humidity (%RH) Hygrometer designed to be rotated by hand Environmentally friendly, blue spirit filled thermometer Tubes Comes with protective pouch, calculator chart and 2pcs replacement wicks
Temperature range :
-5 to +50°C Accuracy: +/-1°C Divisions: 0.5°C

ESE53840



Soil Thermometer

This type of soil thermometer is frequently used in the agriculture and horticulture industries to check temperatures of soil and compost. The soil thermometer has a green knob at the top to assist with the location of the thermometer after placement.
210mm thermometer to check temperature of soil and compost
Green knob at top of aluminum case to assist with location
For use in agriculture and horticulture industries

ESE53870



Wireless Weather Station System

ESE2000

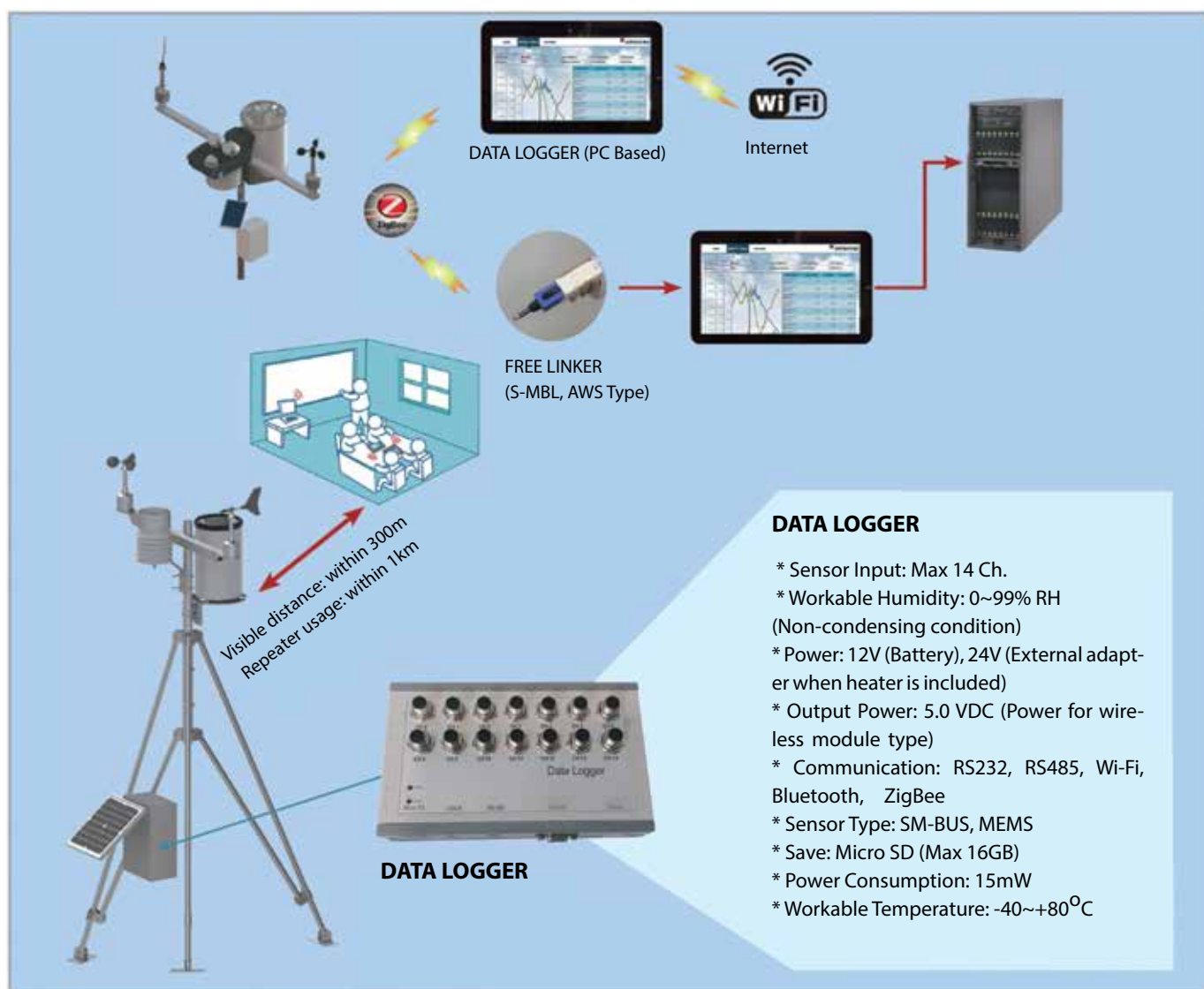
Current Weather Screen



Data Analysis Screen



Environmental



Wireless Weather Station System

ESE2000

**AWS**

Automatic Weather Station uses its multi-channel in real time with Integrated Smart Digital Sensors, Measurement, Data collection, Equation & Calibration analysis tools with icon-based UI and data viewers are utilized to share the weather data through the local meteorological observation GPS system.



Meteorological Observation & Monitoring System

For Education
For Local Weather
Monitoring
For Agriculture
For Industry



Data Logger

1. Sensor Interfacing Port
1. micro-SD (Max 16GB)
3. USB
4. RS-485
5. RS-232
6. External Power DC 2

ESE2000



Features and Benefits

- Electronics Enclosure
- Low Power Consumption
- Main or Solar Powering
- Internet Monitoring System
- Local and Remote Communication
- Mounting Accessories
- Data Collection and Software Display
- Low Total Life Cycle Cost
- Simple Plug-and-Play Interface
- Easy to Install and Expand



Mounting Tripod

Height : 1.5-2m

Adjustable at installation)

Material Stainless Steel

Basic

Rain Detector



Range Main On/Off
Interval 1 minute
Sensor Impedance Detect

Temperature/Humidity

Temp Range : - 40- +60 °C
Temp. Accuracy : ± 0.3 °C
Temp Resolution 0.1 °C
Sensor : Integrate band gap PTAT

RH Range 0-100RH
Accuracy : $\pm 2.0\%$ (10 to 90%)
RH Resolution 0.15RH
Sensor : Planar Capacitive Polymer

Rain Gauge



Range : 0 - 200 mm/h
Accuracy : ± 5
Bucket S 05 mm
Sensor : Tipping Bucket

Anemometer



Wind Speed Range 0-70 m/s
Accuracy : ± 5 (@10-70m/S)
Resolution : 0.10m/s
Sensor Optical disk (8 CPR)

Wind Vane



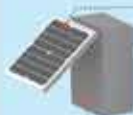
Range : 0 - 360
Accuracy : $\pm 5\%$
Resolution : 1
Sensor : Magnetic Rotary Encoder

Barometer



Range : 700-1100 hPa
Accuracy 1.5P
Resolution 1hPa
Sensor Piezo-resistive

Solar power Pack & Charger



Solar Cell Module 10W, TI IIV Max
Battery 12V 7Ah (Lead-acid Type)
Charge Controller : 12V 6A PWH type

Embedded GPS System.

Extended

Sunshine Duration



Spectrum 400-1,300 nm
View angle 180
Sensor: Si Photodiode

Solar Radiation



Range : 0.000 W/m²
Spectrum : 400-1100nm
Resolution : 1W/m²
Sensor Si Photodiode

UV-B



Range : 0-10 W/m²
Spectrum : 280-320 nm
Sensor : AlGaIn Photodiode

CO2 Gas



Range : 300-1,000 ppm
Accuracy : $\pm 3\%$ (@25°C)
Resolution 1ppm
Sensor : NDIR Dual wavelength

Soil Temperature



Range : - 40-60 °C
Accuracy : ± 0.3 °C
Resolution 0.1°C
Sensor : Si-Integrate band gap PTAT

Soil Moisture



Range : 0- 200 cb (kPa)
Accuracy : $\pm 5\%$
Resolution : 1 cb
Sensor Granular Matrix



Triaxial MEMS earthquake sensor for OSS

- Earthquake laboratory curriculum with gently-guided inquiry for students to learn about STEM, and teachers in contributing to classroom application of it.
- OSS(Open-Source STEM learning and teaching) demonstration in a classroom laboratory with modeling seismic earthquake detection or acoustic quake event.

Optimized programmable sensor for seismic data archival and exchange through wireless or flexible connectivity

- Designed to monitor quake event and vibration using your desktop, laptop computer, open-source hardware or mobile device for Android.
- Programmable DAQ (data acquisition) interfacing to process waveform and analyze seismic spectrum using LabVIEW.
- Configuring user-defined TRIGGER parameters to demonstrate how to detect earthquake vibrations over a very wide of frequencies from as low as DC response to 100Hz.

Technical Specification of Quake Sensor

Measurement range	±2g "Optional programmable range
Bandwidth SPS	DC to 200SPS "Depends on data formats and connectivity
ADC *Depends on data formats and connectivity	24bits depth (Simultaneous 3-axis sampling for time synchronization)
Overload limit	10,000g
Connectivity	Bluetooth, RS-232, USB CDC or UART *For programmable device
Data formats	TRIGGER mode (For seismic quake detection using STA/LTA triggering algorithm) DAQ mode (For waveform processing and analyzing using LabVIEW)
Applications (Educational software for use in laboratory demonstrations)	QuakeCube Demo for Microsoft Windows or Android OS QuakeCube LabVIEW for open-source hardware or other instruments

Planetarium Without Lamp

Used to simulate the position, rotation and revolution of the earth and moon, and for demonstrate some natural event the system earth-moon- sun.
 Size : -Sun : 150 mm - -Earth : 70 mm - -Moon : 18 mm Material : Sun, Earth, and Moon : Plastic
 Colour : -Sun : Yellow - -Moon : Pearl white
 -Earth : Maps of the earth Holder equipped with a scale showing the 4 seasons Model rotation of the earth around the sun made by rotating the shaft with a gear system
 Dimension : (L) 49.50 x (W) 21.00 x (H) 34.50 cm Weight :1.300 kg



ESE53950



Planetarium With Lamp

Showing between position and motion of the sun, earth and moon. System can be played by hand, so that automatically rotate the earth around the Earth to the sun, and make the moon circulating around the earth. Complete with manual book.
 Dimension : (L) 55.00 x (W) 26.00 x (H) 45.00 cm
 Weight : 4.000 kg



ESE53951

Solar System Model

Model of the solar system was created for show the position of the solar system, on these props the sun is modelled with the a big yellow ball at the Centre of the solar system which surrounded by the composition of the planet.

Size :

-Sun : 150 mm
 -Base : 210 mm

Material :

-Sun and base : Plastic
 -Rod sleeve : Steel, black

Solar model and the 9 planets, all planets can rotate smoothly around the solar
 Dimension : (L) 59.00 x (W) 21.00 x (H) 34.50 cm
 Weight :1.000 kg

ESE53948



Solar System Model Motorised

Motorized Solar System turns any room into a planetarium. Ideal for STEM learning, this model solar system encourages a love of science and astronomy. Helps children observe how the planets rotate around the Sun. Inner and outer planets rotate at different speeds for more realistic motion.
 Motorised model includes a brightly lit LED Sun. The Sun doubles as a nightlight and includes an auto shut-off function after 20 minutes. Turn the Sun into a star show! Cover the Sun with the star dome and project constellations onto the walls and ceiling of a darkened room. Features multilingual packaging and Activity Guide packed with interesting solar system facts.
 Requires 4 AA batteries (not included).Note: Model not to scale.

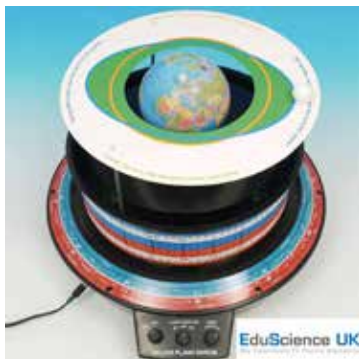
ESE53947

Orbit Tellurium 1

A model of the Sun, which lights up, and the planets as far as Neptune. The Earth has a moon. The planets can be moved around the Sun by hand, and the Moon around the Earth. For demonstrating the shape and motions of the solar system. Batteries are not supplied.
 Height: 10cm; Diameter of largest orbit (Neptune): 38cm

ESE53956





Helios Planetarium

The Helios Planetarium gives a clear visualisation of the six classical planets (Mercury - Saturn) orbiting at their correct relative speed and stars remaining in their positions in the sky.

All versions of the model (0142, 0150 and 0151) include the electric geared orrery and star dome and enable you to study the following topics:

The Planets in their orbits (length of a year, inferior and superior planets)

The phases of Venus

The Moon and its phases (external light source required)

Eclipse basics

Time - solar, sidereal and G.M.T.

The ecliptic and the Zodiacal constellations

How the planets appear to move against the night sky

Use of the Helios outside at night - where should the stars appear in the sky?

With the large Earth and Moon accessories that are included in versions 0150 and 0151 you can also watch as the Earth rotates on its axis while the Moon orbits it every 29.5 'days'. Using an external light source (torch, projector), the larger size of Earth and Moon enables you to demonstrate the following events much more clearly:

Day and night

Shadows and the seasons

The Moon's month, phases and eclipses

The Pole Star, circumpolar stars and a nocturnal

The Moon and stars from different positions on Earth

The tides

Space travel

Items 0142 and 0150 are supplied with a star dome for the northern hemisphere. Product reference 0151 is supplied with a star dome for the southern hemisphere.

Helios Orrery & Northern Star Dome

ESE53952

Helios Planetarium Northern Stars (With Large Earth And Moon Access)

ESE53953

Helios Planetarium Southern Stars (With Large Earth And Moon Access)

ESE53954

Extra Dome For Southern Hemisphere

ESE53955



Solar System Posters

A set of laminated posters of the Sun and 9 planets printed to scale. Includes physical data about the planets and distances between them at the scale printed, giving a real feel for the scale of the universe. Poster sizes: heights - planets 30cm, Sun 49cm; widths - various

ESE53958



Orbit Tellurium 2

The new flexible design instantly engages pupils and illustrates complex relationships more easily.

Rotate the model and watch as the Earth orbits the Sun, the moon orbits the Earth and the Earth spins on its axis.

Shine the light from the sun onto the Earth to model night and day, the seasons and eclipses and create shadows.

Use the small-scale Earth and Moon on an inclined orbit to give an accurate demonstration of the phases of the moon and show why eclipses do not happen every month.

Subjects to study: Day and night. Seasons of the year. The sun's movement across the sky. Changing length of daylight. Shadows. The phases of the Moon. The crescent moon from different latitudes. Eclipses of the Moon and Sun. Use of sundials and shadow sticks. Lunar months and festivals linked to the Moon.

Contains: Tellurium model with accessory tidy, two sizes of Earth and Moon, stick-on model person, sundial, date, eclipse and phase of the moon indicator cards plus teacher guide with suggested activities. Power transformer included.

Size: 65 cm long, 25 cm high

ESE53957



Celestial Globe, Transparent

Globes inside celestial sky TRANSPARENT described the location of stars, including nebulae, constellations, galaxies, binary star.

Size :

- Globe dia. 70 mm
- Celestial sky TRANSPARENT dia. ? 170 mm

Complete with the horizon as well as coordinate and equatorial system

Complete with number of latitude, longitude and name of the country

Complete with manual book

Dimension : (L) 32.00 x (W) 32.00 x (H) 36.00 cm

Weight : 2.200 kg

ESE53949

ECONOMY CELESTIAL GLOBE



Celestial Globe Economy

The Economy Celestial Globe measures 8" in diameter and illustrates many of the same astronomical concepts as the larger versions. The globe can be disassembled for easier storage. Constellations, right ascension and declination lines, and the ecliptic cover the globe. A moveable Earth and Sun complete the kit. A Teacher's Guide with assembly instructions and activities are included.

ESE53959



Biogas Kit

Create your own bio-renewable energy using readily available organic waste materials with this biogas kit. Biogas is now used to power engines, generate electricity, cook food, and heat homes. This kit includes a biogas digester, a one gallon biogas collection bag, all necessary fittings and tubing, a check valve, a combustion nozzle assembly, and safety equipment for one person (goggles, gloves, and apron). Supply approximately 7 gallon of antibiotic-free manure as your biomass. Expect significant gas production in about three to five days. Simply vary the biomass source and/or digestion temperature and you have a variety of comparative experiments to analyse. Rabbit manure works well.

Kit Contains:

Instructions, Fitting, Brass, Check Valve, Elbow Barb, Drainage Bag, Jar w/ Screw Cap, Goggles, Impact, Lab Apron, Gloves, O-Ring, Vinyl Repair Patches

ESE54019



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United Kingdom

Tel : +44 (0)203 8685740

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