Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Cell Structure

Product Code :

SLE/EB/06



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Description :

The Cell Structure kit is an introductory staining kit that shows students the working parts of cells under a microscope. Its activities stain mitochondria and storage inclusions, bring out cell walls, chloroplasts and starch granules in plant material, and compare plant with animal cells. One kit serves up to 30 students over two 45-minute class periods.

Cell Structure kit details

Parameter	Detail
Type	Introductory cell biology staining kit
Staining activities	Staining of mitochondria and storage inclusions
Plant cell featuresobserved	Cell walls, chloroplasts and starch granules
Other activities	Identification of cell components; comparison of plant and animal cells; cell membrane function
Class size	Serves up to 30 students
Time required	Two 45-minute class periods
Also needed	Compound microscope, slides and coverslips (not listed with the kit)
Product code	SLE/EB/06
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Supplied by	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Two-period cell structure practical

Period one, stained cells. Place a thin layer of tissue on glass microscope slides, add the stain named in the kit instructions, and lower a glass cover slip at an angle with a dissecting needle. Under a 400x LED student microscope, students look for stained mitochondria and storage inclusions and label each component they can identify.

Period two, plant material. Mount a thin leaf to find cell walls and chloroplasts, then add a drop of iodine solution to a scraping of potato so that its starch granules turn blue-black. Students note how the stored starch differs in shape and size from the green chloroplasts.

Plant and animal comparison. Each student draws one plant cell and one animal cell at the same magnification, checks them against the Animal Cell & Plant Cell reference, and writes beside each drawing what the cell membrane does and where it lies

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