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Product Name :

Chloroplast Model

Product Code :

SLE/ECB/02



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Description :

Chloroplast Model (Product Code: SLE/ECB/02) is an enlarged teaching model of the plantcell's fundamental organelle, used to show how a chloroplast is built for photosynthesis in senior-school and college biology classes. Handcrafted in translucent fibre-reinforced resin atapproximately 50,000X, it has a cutaway face exposing the thylakoid space and cross-cut grana,and comes with four reproducible keycards. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM biology lab equipment manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Type	Enlarged chloroplast (plant cell organelle) model
Magnification	Approx. 50,000X
Material	Translucent fibre-reinforced resin, handcrafted
Structures shown	Circular chromosomes, outer and inner organelle membranes, inter-membrane space, starch granules, lipid inclusions and ribosomes
Cutaway face	Exposes the thylakoid space and membranes of cross-cut grana
Grana	Protruding grana demonstrate their reticulated structure
Key cards	Four reproducible keycards: colour and black-and-white, labelled and unlabelled
Size (approx.)	24 x 23 x 18 cm (9.5 x 9 x 7 in)
Weight	2.4 kg
Product code	SLE/ECB/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Chloroplast Model Used For?

Teachers use the model to connect structure with function in photosynthesis: the stacked thylakoid membranes of the grana, seen on the cutaway face, are where the light-dependent reactions take place, while the surrounding fluid region is where carbon is fixed into sugars and later stored as the starch granules visible on the model. The circular chromosomes and ribosomes also give a concrete starting point for discussing why chloroplasts are thought to have evolved from free-living bacteria.

A practical way to run the lesson is to project or photocopy the labelled colour keycard during teaching, then hand out the unlabelled black-and-white card as a quick identification test. As a piece of plant biology lab equipment, the model pairs naturally with a photosynthesis practical, so that students measure oxygen output or starch formation and then see on the model where each proce

OEM