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Phone: +91-7082934803

Product Name :

Plant Cell

Product Code :

SLE/ECB/10



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Description :

Plant Cell (Product Code: SLE/ECB/10) is a large, translucent demonstration model used toteach the 25 organelles and cell inclusions of a plant cell in school, college and teacher-trainingbiology. Its fibreglass-reinforced plastic body gives the appearance of living matter, and the cellwall is divided into distinct layers from the middle lamella to a warted tertiary wall. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as a centrepiece of botany lab equipment in India.

Specifications

Parameter	Detail
Organelles and inclusions shown	25
Body material	Translucent, fibreglass-reinforced plastic that gives the appearanceof living matter
Detail parts	Moulded plastic, so colours do not chip, crack, peel or fade
Key structures	Endoplasmic reticulum, cross-sectioned chloroplast with distinct grana and grana discs, large central vacuole, mitochondria and ribosomes, along with the other known organelles and inclusions
Cell wall layers	Middle lamella, primary wall, three secondary walls, warted tertiary wall and plasma membrane
Size (approx.)	16 in high x 11-1/2 in wide x 8 in deep (41 x 29 x 20 cm)
Weight (approx.)	4 kg
Product code	SLE/ECB/10
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Translucent Plant Cell Model Used For?

Teachers usually work from the outside in: first the middle lamella that joins neighbouring cells, then the primary wall, the three secondary walls and the warted tertiary wall, and finally the plasma membrane. From there the lesson moves to the cross-sectioned chloroplast, where the grana and grana discs are easy to point out, and on to the large central vacuole, mitochondria and endoplasmic reticulum. Because the body is translucent, internal organelles stay visible from several angles when small groups gather round for labelling or oral questioning.

The model is most effective when paired with microscope practicals on onion epidermis or leaf peels, so students connect the enlarged structures with what they actually see under the lens. It also serves as a revision aid before practical examinations. At around 4 kg it should rest on a stable bench or shelf rather than be passed hand to hand across a room.

OEM

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