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Product Name :

Plant Cell on Base Model

Product Code :

SLE/ECB/20



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Description :

Plant Cell on Base Model (Product Code: SLE/ECB/20) is a base-mounted model of a plant cell's electron microscopic structure, used to teach cell ultrastructure in senior secondary, undergraduate botany and teacher-training classes. A portion of the wall is removed to reveal the ectoplast, endoplast and tonoplast, the vacuoles, nuclear structure, plastids and mitochondria. Itis made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of biology lab equipment in India, at its own factory in Ambala, as an advanced plant anatomy model for institutions at home and abroad.

Key Details

Parameter	Detail
Type	Plant cell model showing electron microscopic structure
Presentation	Portion of the cell wall removed to expose the interior
Structures shown	Ectoplast, endoplast, tonoplast, vacuoles, nuclear structure, plastids, mitochondria and other cell components
Mounting	On a base
Product code	SLE/ECB/20
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Plant Cell on Base Model Used For?

The model is most useful once students already know the basic parts of a plant cell and are ready to study membranes in detail. With the wall partly cut away, a teacher can show that the cell contents are bounded by the ectoplast, that the vacuoles are enclosed by their own membrane, the tonoplast, and that the nucleus, plastids and mitochondria sit within the surrounding cytoplasm. This makes it easier to explain plasmolysis, where the protoplast pulls away from the wall, and how substances are stored in or released from the vacuole.

Because it depicts electron microscope detail, the model also helps students interpret published electron micrographs, which can otherwise look like abstract patterns. Colleges often display it beside a conventional plant cell model so that learners see the same cell at two levels of magnification, and the base keeps it steady on a bench or display shelf between lessons.

OEM Manufacturer

ScienceLab is the name used by Jain Scientific Equipments Private Limited, the OEM (original equipment manufacturer) of the Plant Cell on Base Model, which the company makes at its own licensed factory at Saha, Ambala, Haryana, India. Colleges, schools, dealers and importers therefore buy direct from the maker and can return to it for repeat orders or questions about the model — ask us. Buyers who need vendor identifiers for procurement can use the company's GST [illegible]49. See t[illegible]

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