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Product Name :

Mitochondrion Model

Product Code :

SLE/ECB/07



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Description :

Mitochondrion Model (Product Code: SLE/ECB/07) is an enlarged organelle model used to teach the structure of the mitochondrion and its role in cellular respiration in senior school and college biology. It magnifies a mitochondrion, normally about 3 microns long, 190,000 times, and its base carries a 1,000,000X membrane relief plus a citric acid cycle schematic. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, and is a useful piece of cell biology equipment in India.

Specifications

Parameter	Detail
Type	Enlarged mitochondrion model on base
Enlargement	190,000 times (a real mitochondrion is normally 3 microns in length)
Structures shown	Two membrane walls, cristae, subunits, matrix and granules
Base relief 1	Cross-section through the membrane and subunits at 1,000,000X
Base relief 2	Simplified schematic of the citric acid cycle
Size (approx.)	58 x 28 x 20 cm (23 in long x 11 in high x 8 in deep)
Weight	4 kg
Product code	SLE/ECB/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Mitochondrion Model Used For?

In lessons on cellular respiration the model shows why the inner membrane is folded into cristae, giving a large surface for the reactions that release energy, and where the matrix sits in which the citric acid cycle runs. With the cycle moulded on the base, the teacher can move from the organelle to its chemistry without switching to a separate chart, and the 1,000,000X relief brings the membrane subunits into view for more advanced classes.

It also makes a good scale exercise: students multiply the real length of 3 microns by 190,000 and compare the answer with the model's length of about 58 cm. Pairing the model with a respiration practical, such as yeast fermentation, helps students connect what they measure at the bench with the structure that makes it happen.

OEM Manufacturer

The Mitochondrion Model is made by Jain Scientific Equipments Private Limited, trading as ScienceLab, as the OEM (original equipment manufacturer) at the company's own licensed factory at Saha, Ambala, Haryana, India. Colleges, schools, dealers and importers buy it from the manufacturer rather than from a stockist, so questions about the model, repeat orders and spare parts comp