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Product Name :

Osmosis Simulation Activity Model

Product Code :

SLE/ECB/15



Science Lab
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Description :

Osmosis Simulation Activity Model (Product Code: SLE/ECB/15) is a classroom demonstration model used to show osmosis, the movement of water across a semipermeable membrane, in school and introductory college biology. The quick, easy set-up can be repeated with different solutes and concentrations, and students quantify each result by measuring the liquid thatcrossed the membrane. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM manufacturer, at its own factory in Ambala, India, for schools wanting an osmosisexperiment kit that students can measure.

Key Details

Parameter	Detail
Type	Osmosis simulation activity model
Principle shown	Diffusion of water across a semipermeable membrane
Set-up	Quick and easy classroom demonstration
Variables students can change	Type of solute and its concentration
Measurement	Amount of liquid that travelled across the membrane
Product code	SLE/ECB/15
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Osmosis Simulation Activity Model Used For?

A typical lesson starts with the teacher running a first trial while students predict which way the water will move. Water diffuses across the membrane from the region where water is more concentrated (the more dilute solution) to where it is less concentrated, and the visible change in liquid levels confirms or corrects their predictions. Groups then repeat the activity with a different solute or a stronger or weaker solution, measure the liquid that has passed through the membrane, and tabulate their results to plot concentration against volume moved.

This turns the model into a genuine investigation with a controlled variable, useful for practical-skills assessment. Follow-up discussion can link the result to root hair cells absorbing water, the wilting of plants in salty soil and why red blood cells swell or shrink in different solutions. Rinse the apparatus with clean water between trials so traces of one solute do not affect the next run.

OEM Manufacturer

ScienceLab is how Jain Scientific Equipments Private Limited presents its educational laboratory range, and the company is the OEM (original equipment manufacturer) of the Osmosis Simulation Activity Model, made at its own licensed factory at Saha, Ambala, Haryana, India. Biology departments, dealers and importers therefore get the model, the quotation and any follow-up help from one source — ask us if you need anything confirmed before a lesson or tender. Our comp

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