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Product Name :

Volumeter Respirometer

Product Code :

SLE/EBT/11



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Description :

Volumeter Respirometer (Product Code: SLE/EBT/11) is a closed-system gas-volumeapparatus used to measure oxygen consumption over time by small plants and animals in schooland college biology practicals. Its control and experimental test tubes sit side by side, clipped to aplastic frame, so both share the same conditions during a respiration run. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory inAmbala, India, as part of its biology lab equipment range.

Specifications

Parameter	Detail
Measuring principle	Changes in gas volume within a closed system
Main measurement	Volume of oxygen consumption over time
Applications	Metabolic rate of small plants and animals; fermentation rates; photosynthesis
Tube arrangement	Side-by-side control and experimental test tubes
Frame	Test tubes clipped to a plastic frame
Product code	SLE/EBT/11
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Volumeter Respirometer Used For?

In a standard respiration practical, germinating seeds or small invertebrates go into the experimental tube, usually with a carbon dioxide absorbent, while the control tube holds an equal volume of inert material. As the organisms take up oxygen and the carbon dioxide they release is absorbed, the gas volume in the closed system falls, and students record the change at fixed intervals. With both tubes on the same frame, warmth from hands or a drift in room temperature affects them equally and can be subtracted from the result.

The same apparatus supports follow-up investigations: comparing respiration at different temperatures, measuring gas production by fermenting yeast, or observing volume changes when green plant material photosynthesises in light. Let the tubes settle to room temperature before the first reading, keep the frame still during a run, and return any animals to their habitat promptly afterwards.

OEM Manufacturer

The Volumeter Respirometer is an original product of Jain Scientific Equipments Private Limited, the company behind the ScienceLab name, which acts as OEM and builds it at its own licensed factory at Saha, Ambala, Haryana, India. Because there is no trading intermediary, schools, universities, dealers and importers receive quotations and repeat supplies directly from the make
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