Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Respiration Apparatus

Product Code :

SLE/BL/039



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Description :

Respiration Apparatus (Product Code: SLE/BL/039) is a two-tube glass set-up used to compare inhaled and exhaled air in school biology lessons on respiration. It comprises two stoppered boiling tubes with one short and one long length of 5 mm glass tubing, joined by PVC tubing anda plastic T, and is listed for testing inhaled and exhaled air in small organisms. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of biology lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Tubes	Two boiling tubes, each with a stopper
Glass tubing	Two lengths, one short and one long, of 5 mm glass tubing
Connections	PVC tubing and plastic T
Purpose	Testing inhaled and exhaled air in small organisms
Product code	SLE/BL/039
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Respiration Apparatus Used For?

Both tubes are part-filled with a carbon dioxide indicator such as limewater; in each stopper the long glass tube reaches below the liquid and the short one stays above it. The PVC tubing links the plastic T to the short tube of one boiling tube and the long tube of the other, so that air drawn in bubbles through the first tube on its way in and air breathed out bubbles through the second. Because exhaled air carries more carbon dioxide, the indicator in the "out" tube changes first — limewater turns milky, for example — giving a clear side-by-side comparison in a single lesson.

Before anyone breathes through the T-piece, the teacher should check which tube is which, since an assembly error can draw liquid towards the mouth. Breathe gently, use a clean mouthpiece for each person and rinse the tubes after the lesson. A standard item on any school lab instruments list, the apparatus also supports follow-on discussion of how the same comparison applies to other organisms that respire.

What to Specify When Ordering

- The number of sets — each has two stoppered boiling tubes, short and long 5 mm glass tubing, PVC tubing and a plastic T.
- Whether spare boiling tubes or bored stoppers should be quoted with the sets.
- Whether you need lime water or another carbon dioxide indicator, as none is listed with the apparatus.

OEM Manufacturer

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