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Product Name :

Spirometer

Product Code :

SLE/BL/044



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Description :

Spirometer (Product Code: SLE/BL/044) is a recording spirometer used to measure tidal volume, respiratory rate, pulmonary ventilation, reserve volumes, vital capacity and oxygen consumptionin college and senior school physiology laboratories. Its one-piece stainless steel tank holds a lightweight plastic float, calibrated 0 to 7 x 0.5 litres, that rises and falls with each breath to draw a trace on a kymograph or datalogger. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Investigations	Tidal volumes, respiratory rate, pulmonary ventilation, reserve volumes, vital capacity; oxygen consumption for metabolic studies
Tank	One-piece stainless steel pressing
Outer case	Durable painted outer case
Float	Lightweight plastic, with metal counterpoise
Float calibration	0 to 7 x 0.5 litres
Pen arm	Corresponds to approximately 0.5 litres
Subject connection	Simple lever control connects the subject either to atmosphere or to the float for recording
CO2 absorption	Container for soda lime crystals fitted
Breathing hoses	Two corrugated hoses, 0.8 m long
Accessories	Two mouthpieces and a nose clip
Airflow	Designed to offer minimum resistance to airflow
Recording	Kymograph or datalogger system required to record results
Soda lime crystals	Not supplied
Product code	SLE/BL/044
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Spirometer Used For?

In a practical, the subject fits the nose clip, takes a mouthpiece and breathes to atmosphere through the lever valve until comfortable; the lever is then switched to the float and the trace begins. Quiet breathing gives tidal volume and respiratory rate, a maximal breath in and out gives vital capacity, and extra effort at the end of a normal breath reveals the reserve volumes. Multiplying tidal volume by breathing rate gives pulmonary ventilation, which students can compare at rest and after exercise.

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