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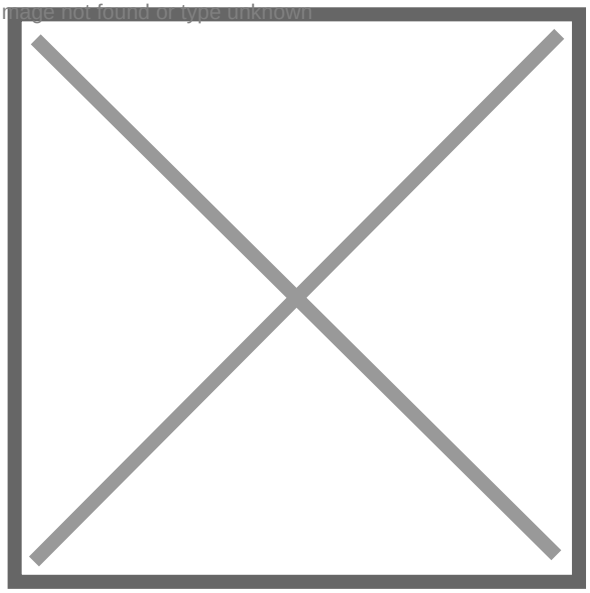
Product Name :

Kit for Demonstrating Plant Respiration

Product Code :

SCL217/09

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Description :

Kit for Demonstrating Plant Respiration (Product Code: SCL217/09) provides the supportstand and glassware for classroom set-ups showing that plants, like animals, respire and releasecarbon dioxide. A stand on a metal rod with a metal ring of 90 mm clamping diameter holdsapparatus steady above a 600 ml chemical glass, so a teacher can assemble a clear, stabledemonstration on the front bench. As plant biology lab equipment it fits the respiration unit ofschool biology courses and is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, India.

Specifications

Parameter	Detail
Stand	Metal rod, 600 mm long
Ring	Metal ring with 90 mm clamping diameter
Glassware	Chemical glass (beaker), 600 ml
Purpose	Demonstrating respiration in plants

Typical Use

A common arrangement uses the ring to hold a funnel, flask or container of living plant material, such as germinating seeds, flowers or leafy shoots, above or beside the 600 ml chemical glass, which holds an indicator or water depending on the version of the experiment the class is following. Students then look for a change in the indicator or in the water level showing that the plant material has used oxygen or given off carbon dioxide. The kit provides the stand, ring and glass; living material and indicator solutions such as lime water are prepared separately.

Running a parallel set-up with boiled (dead) seeds gives a simple control and helps students see that the effect comes from living tissue, which makes this a useful biology experiment kit for students learning to plan a fair test. Tighten the ring firmly on the 600 mm rod before loading it, keep the chemical glass on a level bench, and wash and dry the glassware after use.

Manufacturer

The kit is manufactured by Jain Scientific Equipments Private Limited, the Ambala, Haryana company whose school and college apparatus is sold under the ScienceLab name. Visit the company profile for an overview of its biology range.

Related Laboratory Equipment

Items used with this kit or for related respiration lessons:

- Kit for Demonstrating Seed Respiration in Germination — focuses the same topic on sprouting seeds
- Lime Water — an indicator that turns milky when carbon dioxide passes through it
- Glass Beaker — extra beakers for control set-ups and indicator solutions
- Respiration Apparatus — compares inhaled and exhaled air to link plant and human