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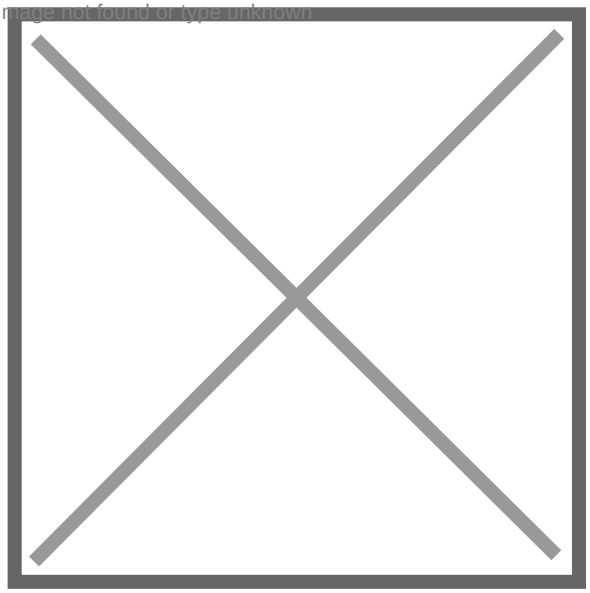
Product Name :

Apparatus for Photosynthesis

Product Code :

SCL102/1.1

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Description :

Apparatus for Photosynthesis (Product Code: SCL102/1.1) is a panel-mounted apparatus for measuring and collecting the gas given off by aquatic plants during photosynthesis. The gas collects in a calibrated capillary tube, where its volume is read, and can then be drawn off with plastic syringes for further testing. Biology teachers use it as a quantitative photosynthesis experiment kit India schools and colleges can run at the bench. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Purpose	Measurement and collection of gas evolved by aquatic plants during photosynthesis
Measurement	Calibrated capillary tube
Gas sampling	Plastic syringes for drawing off gas for analysis
Mounting	Mounted on a plastic panel
Apparatus size	Approximately 7.5" wide by 6" tall; overall apparatus height approximately 7"
Vessel diameter	Approximately 1" each
Stand	Approximately 4.75" tall, 8.5" wide and 4.5" long
Other listed parts	Glass balloon, scalloped scoop
Documentation	User guide

Typical Use

Place a healthy sprig of pondweed in water in the apparatus, allow it to settle in the light, and then measure how far the gas bubble moves along the calibrated capillary tube in a fixed time. Repeating the reading with the lamp at different distances, with coloured filters, or with water at different temperatures turns the apparatus into a proper rate investigation, giving students real data to graph instead of bubble counts.

Once enough gas has collected, draw it off with one of the plastic syringes to test it, for example with a glowing splint. As a piece of plant biology lab equipment it also supports discussion of limiting factors and experimental control: keep the plant, water volume and timing the same, change one factor at a time, and let the plant re-acclimatise for a few minutes after each change before taking readings.

Manufacturer

The apparatus is manufactured by Jain Scientific Equipments Private Limited, a science-education company in Ambala, Haryana, that trades under the ScienceLab name. Jain Scientific Equip -01-0003 ee our c

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