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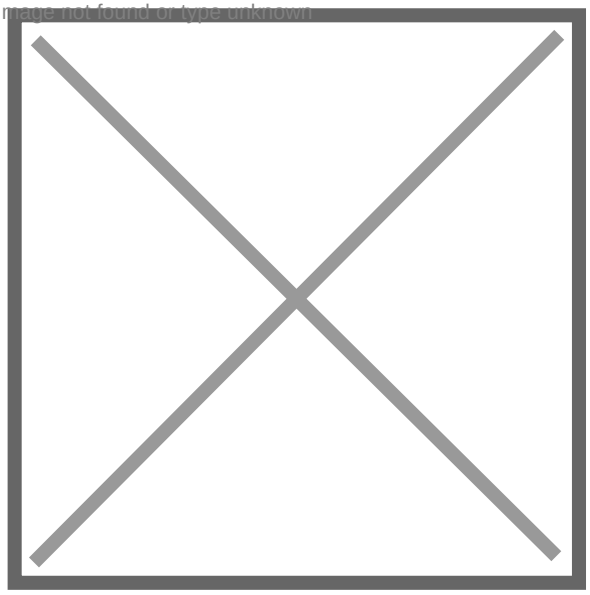
Product Name :

Kit for Demonstration of Aquatic Plant Respiration

Product Code :

SCL227/014

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Description :

Kit for Demonstration of Aquatic Plant Respiration (Product Code: SCL227/014) is a demonstration kit for studying gas exchange in water plants. Its description sets out the purpose: to show how, during photosynthesis, plants give off molecular oxygen, which in submerged plants can be seen as a stream of bubbles. Teachers use it in biology lessons that compare respiration and photosynthesis in aquatic plants, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Key Details

Parameter	Detail
Type	Demonstration kit for aquatic plants
Stated purpose	Showing that plants emit molecular oxygen during photosynthesis
Supplied as	Kit (component list confirmed on request)
Suitable for	Biology lessons on photosynthesis, respiration and gas exchange in water plants

Typical Use

A sprig of a submerged water plant such as Hydrilla or Elodea is placed in water under brightlight, and the gas it releases is watched or collected. Students count bubbles with the lamp at different distances to see how light affects the rate, and a glowing splint test on collected gas confirms that it is oxygen.

Moving the same set-up into darkness shows the other side of the story: oxygen release stops, while respiration continues and the plant takes up oxygen instead. Adding a little sodium hydrogen carbonate to the water supplies extra carbon dioxide and gives a steadier bubble stream. As a photosynthesis experiment kit it suits both teacher demonstrations and student investigations; ask us for the component list so you can plan the rest of the apparatus.

Manufacturer

This kit is part of the plant physiology range of Jain Scientific Equipments Private Limited, which trades as ScienceLab and manufactures teaching apparatus in Ambala, Haryana. Read about the company on its profile page.

Related Laboratory Equipment

Apparatus for related photosynthesis and respiration lessons:

- Apparatus for Photosynthesis — collects and measures the gas evolved by aquatic plants
- Photosynthesis Apparatus — a panel-mounted alternative for gas collection from water plants
- Kit for Photosynthesis Experiments — adds a CO2 sensor and a temperature sensor for data-based lessons

Brow