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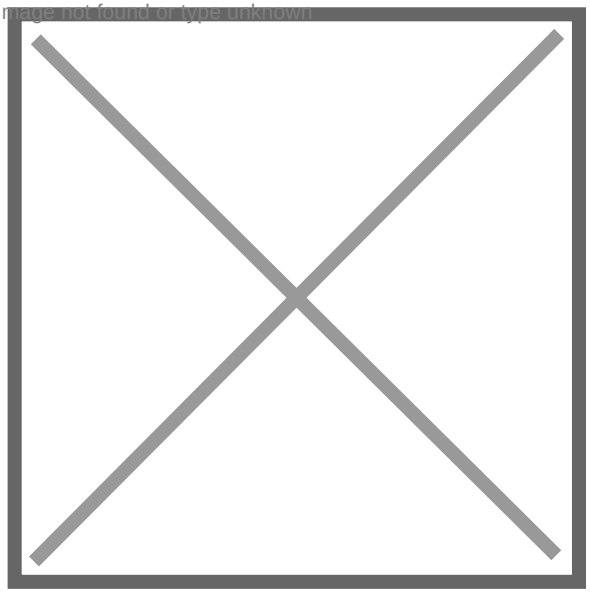
Product Name :

Kit for Demonstrating Root Pressure

Product Code :

SCL225/013

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Description :

Kit for Demonstrating Root Pressure (Product Code: SCL225/013) is a plant physiology demonstration kit for showing root pressure, the push generated in the roots that forces water up into the stem even when the leaves are not drawing it. It helps teachers explain why sap canooze from a freshly cut stem and how roots contribute to the upward movement of water. Like therest of this plant physiology series, it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory equipment supplier in India.

Key Details

Parameter	Detail
Type	Plant physiology demonstration kit
Purpose	Demonstrating root pressure in plants
Supplied as	Kit (component list confirmed on request)
Suitable for	School biology and college botany lessons on water transport

Typical Use

The usual method uses a healthy, well-watered potted plant with a soft stem. The stem is cut a short distance above the soil, a tube is attached firmly to the stump, and a little water is added so the starting level can be marked. Over the following hours the level rises as the roots push sap upward, giving students direct evidence of root pressure.

Watering the pot thoroughly beforehand and keeping it in a warm room helps the effect appear sooner. Linking the result to transpiration and osmosis gives a complete picture of water transport and makes the kit useful plant biology lab equipment for practical assessment. Please contact us for the exact contents of this kit before planning your practical.

Manufacturer

Jain Scientific Equipments Private Limited, whose trading name is ScienceLab, manufactures biology and general science apparatus in Ambala, Haryana for educational customers. The company profile has more background.

Related Laboratory Equipment

Items that support lessons on how water moves through plants:

- Root Pressure Apparatus — a borosilicate glass set-up with a full description of its parts
- Osmotic Pressure Apparatus — shows the osmosis that drives water into root cells
- Cross Section of the Root — a model of root anatomy and vascular tissue
- Kit for Demonstration of Transpiration in Plants — the leaf-side pull that complements root pressure
- Kit for Demonstrating the Absorption of Mineral Salts in Plants — extends the lesson to mineral uptake by roots

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