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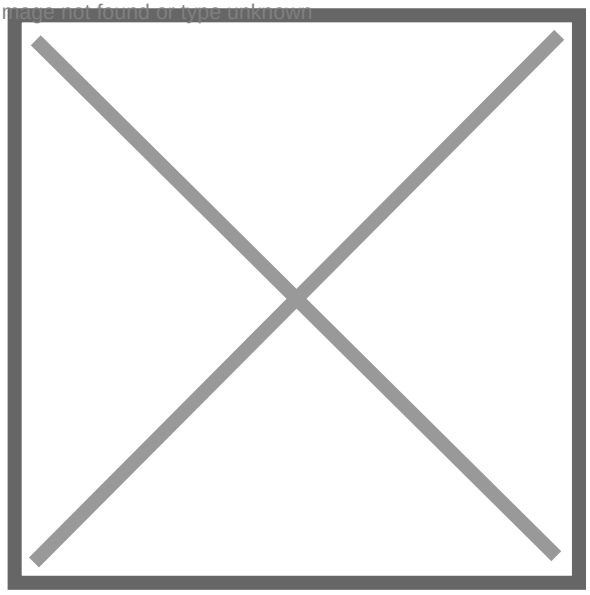
Product Name :

Kit for Demonstration of Transpiration in Plants

Product Code :

SCL223/012

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Description :

Kit for Demonstration of Transpiration in Plants (Product Code: SCL223/012) shows students how water travels up through a plant and leaves it as vapour, mostly from the leaves. A stand and clamp support the set-up over a 600 ml chemical beaker, a 20 x 200 x 2 mm glass tube is included, and a colouring liquid makes the movement of water visible. It is a straightforward transpiration experiment kit for school and college botany, made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Stand	Included
Clamp	Included
Beaker	Chemical beaker, 600 ml
Glass tube	20 x 200 x 2 mm
Colouring liquid	Included, to show the path of water
Principle	Transpiration: water lost as vapour from the living plant surface, mainly the leaves, to the atmosphere

Typical Use

Transpiration is not the same as simple evaporation. Water moves from the soil into the roots, up the stem through the conducting vessels and out through the leaves into the air, and the rate depends both on the surroundings, such as light, temperature and air movement, and on the plant itself, which regulates the loss through its stomata. In young plants almost every surface exposed to air can lose water this way, which is why transpiration is treated as a complex physiological process rather than a purely physical one.

In class, a leafy shoot is placed in the coloured liquid, held by the stand and clamp, and students watch the colour move into the veins while the liquid level falls. Comparing a shoot in still air with one near a fan, or one with its leaves coated in petroleum jelly, turns the demonstration into a fair-test investigation for botany lab equipment practicals. Cut shoots under water to avoid air locks, and rinse the glass tube and beaker straight after use so the colouring does not stain them.

Manufacturer

ScienceLab is the brand of Jain Scientific Equipments Private Limited, an Ambala, Haryana company registered with the Ministry of Corporate Affairs under CIN U29309HR2020PTC087597. The company manufactures at its licensed factory in HSIIDC Industrial Area, Saha, Ambala, covered by Factory Licence AMB-ONLINE-CHD-J-414. Full company details are on the profile page.

Related Laboratory Equipment

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