Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Apparatus Phototropic

Product Code :

SLE/BL/08



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Phone: +91-7082934803

Description :

Apparatus Phototropic (Product Code: SLE/BL/08) is a three-chambered wooden case used to study phototropism in seedlings in school and college plant physiology practicals. Teachers use it as a plant growth experiment kit that shows how excluding parts of the light spectrum changesthe way seedlings grow, with three glass containers, opaque and slot shutters and an orange &blue filter. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Purpose	Phototropism experiments with seedlings; shows the effect of excluding various parts of the light spectrum on growth
Case	Three-chambered wood case that accepts a variety of shutters
Window	One chamber has a window at the top and back
Seedling containers	Three glass containers
Shutters supplied	Opaque shutter and slot shutter
Filter supplied	One orange & blue filter
Overall size	180 x 530 x 180 mm
Product code	SLE/BL/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Phototropism Apparatus Used For?

Seedlings are raised in the three glass containers and one container is placed in each chamber. By fitting different shutters, the class sets up contrasting conditions side by side: the opaque shutter keeps a chamber dark, the slot shutter lets in a narrow beam of light from one direction, and the filter allows only part of the spectrum through. Over the following days students record the height and direction of growth in each chamber, and seedlings exposed to one-sided light bend towards it.

The filter comparison is the most instructive part, because phototropic bending responds far more strongly to blue light than to orange or red — an easy way into light-sensitive pigments and the plant hormone auxin. For reliable results, sow seeds of one variety, water all containers equally and keep the apparatus away from stray light from other sides. As plant biology lab equipment it can be reused year after year; wipe the wooden case dry and store the shutters and filter flat.

What to Specify When Ordering

- The number of sets — each set is one three-chambered case with three glass containers
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