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Product Name :

Clinostat (Electric)

Product Code :

SLE/BL/14



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Description :

Clinostat (Electric) (Product Code: SLE/BL/14) is a motor-driven plant physiology instrument used to study geotropism and phototropism on seedlings, cut shoots and small potted plants in school and college botany labs. Seedlings pinned to its cork-faced disc turn slowly at 5revolutions per hour on 220V, 50Hz mains, so gravity or light no longer acts from one fixeddirection. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer of school biology lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Application	Geotropism and phototropism studies on seedlings, cut shoots and small potted plants
Specimen disc	Cork-lined/faced disc with a fitting to take a specimen tube; seedlings are pinned to the cork
Cork disc diameter	Listed as both 70 mm and 100 mm in our catalogue data; confirmat enquiry
Drive	Electric motor, 5 revolutions per hour
Angle adjustment	By thumb screw
Cover	Clear plastic cover
Power supply	220V, 50Hz; complete with 3-core cable
Height	300 mm
Product code	SLE/BL/14
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Electric Clinostat Used For?

For a geotropism experiment, germinate seeds such as peas or beans on damp cotton until the roots and shoots are a few centimetres long, pin them to the cork disc and set the axis horizontal with the thumb screw. As the disc turns at 5 revolutions per hour, each seedling experiences gravity from every side in turn, so roots and shoots keep growing in the direction they were placed. A second set pinned to a stationary cork board shows the normal response, with roots curving down and shoots curving up, for direct comparison.

Phototropism is demonstrated the same way: a plant rotating beside a window grows straight, while a stationary control bends towards the light. The clear plastic cover helps hold humidity around the specimens during longer runs. As with any mains-powered botany lab equipment, connect the 3-core cable to an earthed socket, keep water away from the motor housing and switch off before repositioning seedlings.

OEM

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