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Product Name :

Monocular Microscope, 400x

Product Code :

SLE/M/101



Science Lab
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Description :

Monocular Microscope, 400x (Product Code: SLE/M/101) is a mains-powered student microscope used to examine prepared and fresh slides up to 400x in secondary-school and college biology practicals. Its focusable Abbe condenser (N.A. 1.25) and LED lighting with intensity control give students more control over illumination than a fixed-condenser model. This school microscope for India and export markets is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Head	Monocular, 45° inclined, 360° rotation
Eyepiece	WF10X/18 mm with pointer
Nosepiece	Triple
Objectives	Achromatic, DIN: 4X, 10X/0.25, 40X/0.65/S
Condenser	Focusable Abbe condenser, N.A. 1.25
Filter	Built-in frosted glass
Stage	110 x 110 mm plane stage with sample clips
Diaphragm	Disc diaphragm
Focusing	Separate coarse and fine adjustment; focus precision 2 µm; focusing stroke 7 mm
Illumination	LED with intensity control
Power	100–220 V mains
Included	Dust cover
Product code	SLE/M/101
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the 400x Monocular Microscope Used For?

Secondary-school syllabuses call for slides of plant and animal cells, root-tip mitosis, stomata and simple micro-organisms, and this microscope covers all of them at up to 400x. Place the slide under the sample clips on the 110 x 110 mm plane stage, focus with the 4X objective using the coarse control, then move to 10X and 40X and finish with the fine control, which works to a precision of 2 µm.

Raise or lower the focusable Abbe condenser and turn the disc diaphragm to balance brightness and contrast: stained sections usually need more light, while thin unstained mounts show better with the condenser lowered and a smaller aperture. The 40X/0.65/S objective is spring-loaded, so it give…er after …