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Product Name :

Student Monocular Microscope

Product Code :

SLE/M/23



Science Lab
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Description :

Student Monocular Microscope (Product Code: SLE/M/23) is a compound microscope with achromat 4x, 10x, 40x and 100x oil objectives, used for senior-school and undergraduate slide work from 20x to 1500x. Its monocular head is interchangeable with a binocular or vertical photo tube, so a lab can start simple and change the viewing arrangement later. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, among its biology lab equipment for India and international markets.

Specifications

Parameter	Detail
Observation head	Monocular; interchangeable with binocular or vertical photo tube
Magnification	20x to 1500x
Objectives	Achromat 4x, 10x, 40x (S.L.) and 100x oil immersion
Eyepieces	Huygenian 5x or 15x; wide field 10x
Nosepiece	Quadruple, revolving on smooth bearings
Arm	One-piece die-cast, with ball-bearing guide ways for smooth,backlash-free fine focusing
Focusing	Coarse and fine by separate, conveniently placed knobs; fine focus 1 division = 0.002 mm
Condenser	Bright field, Abbe N.A. 1.25, focusing up and down by rack and pinion
Stage	Mechanical stage, standard size 120 x 140 mm
Illumination	Plano-concave mirror; optional 6 V/20 W lamp or direct 220 V lamp, attachable in place of the mirror mount
Product code	SLE/M/23
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Student Monocular Microscope Used For?

The Student Monocular Microscope covers the full range of a biology practical course on one stand: whole mounts and tissue sections at low power with the 4x and 10x objectives, cell detail at 40x, and stained bacteria with the 100x oil-immersion objective. Because each division of the fine-focus knob equals 0.002 mm, students can also count divisions between two focal planes to estimate the thickness of a specimen, a useful extension exercise for senior classes.

The interchangeable head is the model's planning advantage. A school can equip a lab with monocular heads today and later fit a binocular head for comfort or a vertical photo tube for imaging, keeping the same stand, stage and objectives. For lighting, use the plano-concave mirror in bright rooms, or order the 6 V/20 W or direct 220 V lamp that mounts in place of the mirror

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