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Product Name :

Research Microscope

Product Code :

SLE/M/54



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Description :

Research Microscope (Product Code: SLE/M/54) is a binocular compound microscope used for detailed slide work, including oil-immersion study of bacteria and stained cells, in college, university and research laboratories. It pairs Koehler illumination from a 3 W LED with 4x, 10x, 40x and 100x oil-immersion objectives on a reversed quintuple nosepiece, above a large 180 x 170 mm stage. Supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, it suits labs building up microbiology lab equipment in India and abroad.

Specifications

Parameter	Detail
Head	Siedentopf-design inclined binocular head with 360° swivelling eyepiece tubes
Eyepieces	2 x widefield N-WF10x/20 mm, high eyepoint, with dioptre adjustment
Interpupillary distance	Adjustable from 48 to 75 mm
Objectives	4x, 10x, 40x and 100x (oil-immersion)
Nosepiece	Reversed quintuple nosepiece with click stops
Focus	Advanced coaxial coarse and fine focus
Illumination	Koehler, 3 W LED with intensity control
Stage	Large 180 x 170 mm stage with built-in mechanical stage and low-position coaxial controls
Stage travel range	80 x 55 mm
Size	15 in H x 7-1/2 in W x 10-1/2 in D (approx. 38.1 x 19.1 x 26.7 cm)
Product code	SLE/M/54
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Research Microscope Used For?

The 100x oil-immersion objective is what separates this instrument from a student microscope: it resolves the shapes and arrangements of bacteria in stained smears, the structure of stained blood cells in teaching films and fine detail in histology sections. Koehler illumination spreads the 3 W LED light evenly across the field, which keeps high-power images crisp and suits photomicrography work.

For oil work, focus first at 40x, swing the nosepiece aside, place a drop of immersion oil on the slide and click the 100x objective into place; wipe the oil off with lens tissue afterwards. During long sessions, the swivelling tubes, 48–75 mm eye-spacing range and dioptre-adjustable high-eyepoint eyepieces keep viewing comfortable, including for spectacle wearers, while the low-position stage controls let the hand rest on the bench.

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