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**Product Name :**

Inverted Tissue Culture Microscope

**Product Code :**

SLE/M/34



Science Lab
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## Description :

**Inverted Tissue Culture Microscope** (Product Code: SLE/M/34) is an inverted trinocular microscope used to observe living cells growing in flasks, bottles and dishes in cell culture, biotechnology and microbiology laboratories. Its objectives sit below a 180 x 150 mm stage, with extension plates for large bottles and micro-filter work. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for institutions buying cell biology equipment in India and abroad.

### Specifications

| Parameter | Detail |
|---|---|
| Viewing body | Siedentopf trinocular head inclined at 30°; interpupillary distance 55–75 mm; diopter adjustment ring on ocular |
| Eyepieces | PWF 10x, paired, field of view 20 mm |
| Centering telescope | 5x |
| Objective listed | LWD plan achromatic 4x/0.1, W.D. 18 mm |
| Nosepiece | Quadruple |
| Focusing | Two large low-positioned knobs; backlash-free rack and pinion, approx. 18 mm range; sensitive fine focusing knob; co-axial coarse and fine controls with rubber grips |
| Focus controls | Pre-focusing lever and tension adjustment ring |
| Illumination | 6 V, 20 W halogen lamp with spherical collector lens; continuous intensity regulation; field diaphragm; pull-out filter socket |
| Stage | Hard-coated fixed square plain stage, approx. 180 x 150 mm, with two extension plates and two stage clips in drilled holes |
| Base | Large, sturdy base with built-in solid-state transformer for the illuminator |
| Optional accessories | Micro-photographic camera; digital or CCD camera to photograph specimens and show them on a TV or laptop screen |
| Product code | SLE/M/34 |
| Supplied by | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India |

### What Is the Inverted Tissue Culture Microscope Used For?

Cells in culture settle and grow on the bottom of their vessel, under a layer of medium. An upright microscope cannot get close to them, so the inverted design turns the optics around: light comes from above and the objective looks up through the base of the flask or dish. Technicians use it to check confluence, cell shape and contamination before passaging, without opening the culture.

The long working distance of the listed 4x/0.1 objective (18 mm) suits thick-bottomed vessels. The two extension plates widen the stage for large bottles or micro-filter work, and the low-set focus ch one c