

Optical microscope

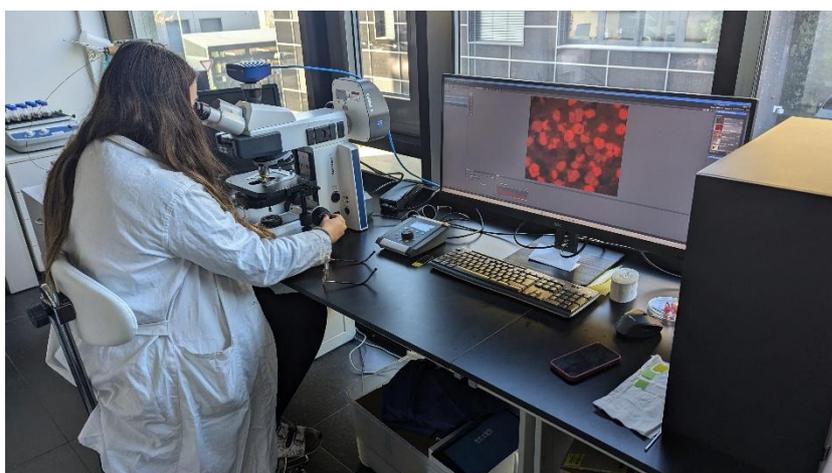
Description/Parameters

ZEISS Axioscope 5 is an advanced optical microscope designed for environmental and biological laboratories, combining intuitive operation with high-quality optics. The microscope uses transmitted light to observe detailed structures in both stained and unstained samples. Fluorescence microscopy with the Colibri 5 LED module enables easy image acquisition in multiple channels (UV, blue, green, red, and others), making it ideal for identifying specific cells or contaminants.

- Various contrast methods: bright field, dark field, phase contrast, differential interference contrast (DIC), and polarization
- Colibri 5 with fluorescence imaging in two channels (expandable up to five)
- ECO mode and light intensity manager for energy efficiency
- Ergonomic design with SNAP button for easy image capture directly from the microscope
- ZEISS ZEN software for advanced image processing (e.g., image stitching, multispectral fluorescence)

Utilization/Services

For water and wastewater sludge analysis, the microscope is used to identify microorganisms such as bacteria and protozoa, which is essential for evaluating biological processes. With fluorescence microscopy and the Colibri 5 LED module, specific pathogens can be detected. Phase contrast and DIC methods allow observation without staining, simplifying sample analysis. The Axioscope 5 also supports identification of contaminants and assessment of sludge quality, while ZEN software enables efficient image digitization and analysis.



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