

How to keep your microscope clean and properly adjusted



Seeing beyond

To get the best out of your microscope for a long time, follow some easy steps:

1



Regularly check your microscope including optical components for dirt and dust. Only clean optical components if they are dirty, except immersion objectives (5).

2



Köhler your microscope on a regular basis.

[▶ Click to watch video](#)

3



Always clean off spilled media immediately. Cell culture media contains salts that can lead to corrosion and salt residues, e.g. on the front lens. First use an absorbent cloth to absorb the media. Then use distilled water and clean the lens with a cotton swab.

4



Always use a dust cover when microscope is turned off and not in use.

8



Use microscope components as intended to prolong optimal performance. This is particularly important for specialized optics such as high-end objectives or polarization objectives. Don't switch magnification by pulling on such objective lenses.

7



Dry room air prevents fungus contamination best. Here, an air conditioning system generally works well. Alternatively an IR lamp with 1 m distance to the microscope can be installed to produce microcirculation.

6



Always clean immersion objectives (e.g. oil) immediately after usage. Use lens tissue.

5

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Transport & Storage



After cleaning the objective lens with solvent, the objective should only be mounted in the objective capsule after a few minutes to allow solvent residues to evaporate completely.



Use a dust cover when microscope is turned off and not in use. Please make sure that the halogen lamp housing is no longer hot before you put the cover on. For long-term storage, microscopes should be kept with a dust cover, if possible in a cabinet. Microscopes should not be kept in styrofoam boxes for a long time.



Microscopes can whether be transported in styrofoam or a dedicated transport case if available.



The openings of the binocular viewing tubes must always be closed. Unless the eyepieces are in, use dust stoppers.

Never locate the microscope in a place where it could be affected by corrosive acidic or alkaline vapors.