

Intended Use

Used in light microscopy to increase the resolution of microscope.

Summary & Principle

In microscopy, the image quality is related to the optical properties of the immersion oil used. Oil is placed on a slide of material to be examined using a particular, 100x objective lens on a compound microscope. The lens is moved down toward the slide and into the oil, thus there is no air gap between the slide and the lens. It is meant to have the refractive index of glass so as not to refract the beams of light being focused on the item being examined. Basically this means that all light beams are focused onto the object to be examined, as opposed to light beams going through air and being scattered, thus losing some of their power. Using oil results in higher brightness at high magnification (1000x), and high image resolution.

Directions

1. Lay a drop of the immersion oil at the finest point of the smear.
2. Lower the immersion objective (100x) lens close to the slide, so that the objective touches the immersion oil.
3. Focus slowly the objective until the preparation becomes sharp and clear.
4. Once the examination is finished, clean the objective carefully with a soft duster impregnated with a cleaning solution for immersion objective.

Appearance : Colorless to pale yellow viscous liquid.

Remarks

1. Do not move from the immersion objective directly to dry objective, but pull up the immersion objective and clean it carefully with a soft duster impregnated with a cleaning solution for immersion objectives.
2. This step is essential to avoid any contamination of the dry objectives by the oil. The risk is that the oil would actually seep through the objective and so make them unusable.

Storage and Stability

1. Store the Immersion oil at 15°C-25°C, away from light.
2. Stability of immersion oil is as per expiry date mentioned on the label.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Data on file: UltraCare Diagnostics .

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.