

INSTRUCTION FOR USE



Reference: 340055-0000

Pack Immersion RAL OIL FOR THE EXAMINATION OF MICROSCOPIC PREPARATIONS UNDER IMMERSION OBJECTIVES

Principle:

In microscopy, the image quality is related to the optical properties of the immersion oil used. To increase the resolution (the shortest distance between two objects distinguishable through a microscope), one should use an immersion oil presenting the same refraction index as glass (approximately 1.515). This colourless oil replaces air between the object and the objective and eases the spreading of light at the same speed as in glass, avoiding any image distortion.

Kit description:

DropStick with DropStand / 340055-0000	1 x 10 ml (10 ml) + 1 DropStand
Pack DropStand Immersion 30 / 340031-0000	3 x 10 ml (30 ml) + 1 DropStand
Pack DropStand Immersion 100 / 340101-0000	10 x 10 ml (100 ml) + 1 DropStand
Pack Immersion 150 / 340150-0000	6 x 25 ml (150 ml)
Pack Immersion 300 / 340300-0000	6 x 50 ml (300 ml)

Refractive Index: 1.513 ± 0.005 at 25°C
 Viscosity: 1000 mPa/s at 25 °C
 No PCB
 No residual fluorescence

Specific material required but not provided:

Immersion objectives

Use:

For professional use only
 In vitro use only
 The collection and processing of chemical and biological waste must be conducted by specialized and registered companies.
 Storage temperature: 15-25°C
 Shelf Life: 36 months. In any case, please conform to the expiry date stipulated on labels.

Specimen preparation:

Specimen must be processed in accordance with the procedures available in the laboratory and promulgated by national Authorities.

Bibliography:

M.LANGERON, *Précis de microscope - Technique. Expérimentation. Diagnostique.* Masson, Paris, 7^{ème} édition, (1949) p. 81-87; p. 165A.
 POLICARD - M.BESSIS - M.LOCQUIN, *Traité de microscope - Instruments et techniques.* Masson, Paris, 7^{ème} édition (1957), p. 37



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Staining procedure:

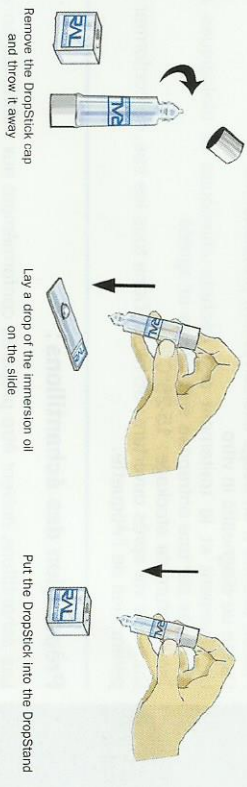
Please read all this information carefully before using this device.

- STEP 1: Make a pinpointing on the preparation to be observed with the lowest objectives
- STEP 2: Turn to the immersion objective of the optical microscope
- STEP 3: Lay a drop of the immersion oil at the finest point of the smear
- STEP 4: Lower the immersion objective close to the slide, so that the objective touches the immersion oil
- STEP 5: Pull up slowly the objective until the preparation becomes sharp and clear
- STEP 6: Once the examination is finished, clean the objective carefully with a soft duster impregnated with a cleaning solution for immersion objectives.

Recommendations and/or notes of use:

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. 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 objectives and so make them unusable.
 Never mix up immersion oils coming from different brands, because they are not systematically miscible: always clean the objective carefully before changing oil.

Particular case: Use of DropStick and DropStand



Place the DropStand near the microscope.
 Take the stopper off the DropStick and place it "head down" in the DropStand. Apply one drop of immersion oil to the slide with a short press on the dispensing valve.
 Keep the DropStick in its support until the next use. It is advisable to clean the DropStand with a cleaning solution before using it with a new DropStick.

