



3C-247

Immersion oil, refractive index 1.482

In-vitro diagnostic agent

Description

The product 3C-247 is a ready-to-use solution for professional users for application in microscopic examinations. It is a clear, viscous liquid with a refractive index close to that of glass.

The product comes in 6 different pack sizes: 3C-247.00025 (25ml bottle), 3C-247.00100 (100ml bottle), 3C-247.00250 (250ml bottle), and 3C-247.01000 (1l bottle), 3C-247.05000 (5l canister). and 3C-247.10000 (10l canister).

Main components

Paraffin ($C_{25}H_{52}$)

Purpose

Due to its refractive index, the "immersion oil, refractive index 1.482" is used to optimise microscopic examinations of histological, cytological, haematological and bacteriological specimens. It is a ready-to-use solution for professional users.

Sample material and sample preparation

Samples may only be taken by qualified personnel. All samples must be processed with state-of-the-art technology. All samples must be clearly labelled.

Sample material: fixed and stained histological, cytological, haematological and bacteriological specimens

Test principle

The "immersion oil, refractive index 1.482" is a viscous and clear liquid with a refractive index close to glass. It is dropped onto the stained and mounted or unmounted specimen and forms a clear film between the specimen and the objective of the microscope.

This almost completely eliminates the deflection of the light rays and thus significantly increases the performance of the microscope objectives.

Implementation

A drop of the immersion oil is placed on the area to be viewed. Then the immersion objective is adjusted so that the space between the specimen and the objective is completely filled with immersion oil. After the microscopy procedure is finished, the front lens of the objective and the specimen should be cleaned with a lint-free cloth and some ethanol abs.).

The use of "immersion oil" is recommended at a microscopic magnification of more than 40x.



Result

With the gap between the specimen and the objective completely filled with "immersion oil, refractive index 1.482", the performance of the microscope objectives is significantly increased due to a lower deflection of the light rays.

Precautionary measures

When removing the product, care must be taken to avoid contamination of the storage vessel. Once oil has been removed, it must not be returned to the container. If turbidity or solids appear, discard the product. The product is intended for single use and must not be reused.

Storage and shelf life

Store the unopened containers in a dry place at 15 to 25 °C, avoiding direct sunlight.

The shelf life is 2 years. See also the best-before date (BBD) on the label. Once the containers have been opened, the shelf life corresponds to the best-before date, as long as the storage conditions are observed and the solution is handled properly.

Safety notice

If any serious incidents occur in connection with the product, please report them to the manufacturer and the national authority.

Literature

Romeis, Mikroskopische Technik, Editors: Maria Mulisch, Ulrich Welsch, 2010, Springer Spektrum, 18th edition

