



# 1E-242

## Oil red O

In-vitro diagnostic agent

### Description

The product 1E-242 is supplied in 4 different pack sizes: 1E-242.00010 (10g bottle), 1E- 242.00025 (25g bottle), 1E-242.00100 (100g bottle) and 1B-259.01000 (1kg bottle). It is a dry dye for preparing a staining solution for professional users for application in histology.

### Main components

Oil red O (C.I. 26125 / Solvent Red 27)

### Purpose

The dye oil red O is used for human-medical cell diagnostics and is used for the histological examination of samples of human origin. The dye is used to prepare a solution (e.g. in 2- propanol 60%). In solution, the dye oil red O can be used for staining lipids in histological samples.

### Sample material and sample preparation

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

Sample material: Frozen sections of native tissue (8–10 µm)

### Test principle

Oil red O is a lipophilic dye, it diffuses into and stains lipids in histological tissues.

### Staining

For the colouring, the dry dye oil red O is mixed with 2-propanol 60% and boiled up briefly. The freshly prepared dye solution must be filtered before use.

To achieve a good colour result, the slides must be immersed in the solutions and moved around; simply placing them in the solution is not sufficient.

First immerse the frozen section briefly in 2-propanol 60%. Incubate for 20 minutes in oil red O-dye solution. Then immerse again briefly in 2-propanol 60%. Then rinse with distilled water and draw the sections onto slides. Then incubate for 5 minutes in haematoxylin solution modified according to Gill II and rinse again with distilled water. Finally, wash under running tap water for 5 minutes.

Covering of the specimens with aqueous covering agent and a cover slip.



### Result

Cell nuclei	blue
Lipids	bright red

### Precautionary measures

When removing the product, care must be taken to avoid contamination of the storage vessel. Once the solution has been removed, it must not be returned to the canister. 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