



Oil Red O Stain Kit (For Fat)

Description: Oil Red O Stain Kit (For Fat) is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used **ONLY** on frozen tissue sections, fresh smears, or touch preps as xylenes and alcohols will dissolve fat deposits.

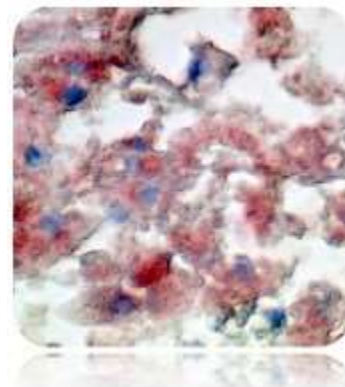
Fat Cells: Red
Neutral Fat: Red
Nuclei: Blue

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile

Control Tissue: Any frozen section containing fat.

Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Propylene Glycol	500 ml	18-25°C
Oil Red O Solution	125 ml	18-25°C
Hematoxylin, Mayer's (Lillie's Mod.)	125 ml	18-25°C



Precautions: Keep away from open flame.
Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

NOTE: Heat Oil Red O Solution to 60°C prior to beginning.

1. Prepare fresh or frozen tissue section as usual.
2. Place slide in room temperature Propylene Glycol for 5 minutes.
3. Incubate slide in heated (60°C) Oil Red O Solution for 6-10 minutes or overnight at room temperature.

Note: Prepare mixture of 85% Propylene Glycol in distilled water.


4. Differentiate tissue section in 85% Propylene Glycol for 1 minute.
5. Rinse slide in 2 changes of distilled water.
6. Stain tissue section with Hematoxylin, Mayer's (Lillie's Modification) for 1-2 minutes.
7. Rinse slide thoroughly in tap water.
8. Rinse slide in 2 changes of distilled water.
9. Coverslip using an aqueous mounting medium.

Storage: 18° C  25° C



References:

1. Hopkins, P.M. et al. Oil red O stain of alveolar macrophages is an effective screening test for gastroesophageal reflux disease in lung transplant recipients. *The Journal of Heart and Lung Transplantation*. 2010 August; 29(8): pages 859-864.
2. Clark, G., et al. *Staining Procedures*; 4th Edition, 1981.
3. Sheehan, DC., Hrapchak, BB. *Theory and Practice of Histotechnology*; 1980, page 225.

Storage: 18° C  25° C

