

# 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>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
PRG500	Propylene Glycol	500 ml	18-25°C
ORG125	Oil Red O Solution	125 ml	18-25°C
HMM125	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 (cat# AML060).

Storage: 18° C  25° C




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**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; 4<sup>th</sup> Edition, 1981.
3. Sheehan, DC., Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 225.

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