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## TECHNICAL DATA SHEET 1030

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# Oil Red O Staining Kit

**Oil Red O Staining Kit** is excellent for the demonstration of general localization of fats in frozen tissue sections. Fat which may occur in an abnormal place such as fatty emboli that may develop after either a bone fracture or an injury that crushes a fatty bone area may be demonstrated using Oil Red O. Using this fat stain may support the diagnosis and verify that the emboli caused death. Additionally, degenerating material containing fat, such as cell membranes or myelin may coalesce into fat droplets that are demonstrable with a fat stain. Oil Red O staining can also display tumors arising from fat cells allowing them to be differentiated from other types of tumors.<sup>1</sup>

The solvent used in the Oil Red O kit will not only provide excellent demonstration of the fatty substances but also preserve its integrity.

### KIT CONTAINS

- 25962A - 250 ml Propylene Glycol
- 25962B - 250 ml Oil Red O Solution
- 25962C - 250 ml Propylene Glycol Solution (85%)
- 25962D - 250 ml Gill's Hematoxylin

### PROCEDURE

1. Cut fresh frozen tissue between 5-10 microns.
2. Air dry slides for 30-60 minutes at room temperature.
3. Place slides in cold 10% formalin for approximately 10 minutes.
4. Air dry slides in room temperature under a hood.
5. Place slide in absolute Propylene Glycol for 2-3 minutes.
6. Transfer to Oil Red O Solution for 10 minutes.
7. Differentiate in 85% Propylene Glycol Solution for 2-5 minutes.
8. Rinse in DI water for 2 minutes
9. Stain in Gill's Hematoxylin for 30 seconds to 1 minute.

10. Rinse in tap water for approximately 2-3 minutes.
11. Transfer to DI water.
12. Mount with Aqua-Poly/Mount or other aqueous mountant.

### RESULTS

- Lipids - red
- Nuclei - blue

### STORAGE AND HANDLING

- Store at room temperature
- Use with gloves, chemical goggles & fume hood

### REFERENCES

1. Carson F, Histotechnology A Self-Instructional Text, 2nd Ed, 1997, pp 151, American Society of Clinical Pathologist.

### ORDERING INFORMATION

Catalog No.	Description	Size(s)
25962-250	Oil Red O Staining Kit	250 ml

### RELATED PRODUCTS

18606-20	Aqua-Poly/Mount	20 ml
18606-100	Aqua-Poly/Mount	100 ml
18606-5	Aqua-Poly/Mount	5 x 20ml

### TO ORDER

- In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
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