

## **H-502, SUDAN BLACK B STAIN**

**Note:** Sudan IV may be substituted for Sudan Black B in this procedure.

**Fixation:** 10% Buffered Neutral Formalin (F-113)

**Sections:** Use frozen sections

**Staining:**

1. Cut frozen sections, wash 2-5 min. in distilled water to hydrate.
2. Dehydrate in Propylene Glycol (Absolute) (H-502-4) 10 min.
3. Stain in the Sudan Black B, 10 - 30 min.  
NOTE: If sections have been already mounted on glass plates for convenience, allow the sections to stain overnight..
4. Differentiate in Propylene Glycol, 85%, (H-502-2) 2 -3 minutes, agitating gently.
5. Rinse in distilled water, 3-5 min.
6. Counterstain with Kernechtrot's Nuclear Fast Red (H-502-3) or other nuclear stain, 5-10 min.
7. Rinse in distilled water, 3-5 minutes.
8. Mount with Glycerine Jelly, (M-12).

**Stain Results:**

Blue-Black	Fat
Green-Black	Neutral Fats, Myelin, Mitochondria, other Lipids
Red	Nuclei
Colorless	Cytoplasm

**References:**

- Chiffelle, T.L. and Putt, F.A.: Stain Technology, 26: 51 (1951)  
Clark, G.C., ed.: Staining Procedures, 3<sup>rd</sup> ed.; Baltimore: Williams and Wilkins Co., c. 1973, p. 148.  
Luna, L.G., ed.: Histologic Staining Methods, 3<sup>rd</sup> ed.; New York: McGraw-Hill Book Co., c1968 p.145.