

This procedure is available in kit form from:  
**Poly Scientific R&D Corp.**  
70 Cleveland Avenue • Bay Shore, NY 11706  
(631) 586-0400

cat# cy004

**FERROUS ION UPTAKE FOR MELANIN**

**SOLUTIONS:**

1. Ferrous Sulfate 2.5% Aqueous
2. Potassium Ferricyanide 1% Solution
3. Nuclear Fast Red 0.1% (Kernechtrot)
4. Acetic Acid 1% Aqueous

**STAINING PROCEDURE:**

Note: Begin with step 1 for paraffin sections and step 3 for smears.

1. Deparaffinize with Xylene, 2 changes for 5 minutes.
2. Hydrate through Absolute Alcohol, 95%, 80%, and 70% Alcohols, 15 dips each.
3. Wash in distilled water, 15 dips.
4. Place in Ferrous Sulfate 2.5% Aqueous for 1 hour.
5. Wash in distilled water, 4 changes for 1 minute each.
6. Place in Potassium Ferricyanide 1% Solution for 30 minutes.
7. Place in Acetic Acid 1% Aqueous for 15 dips.
8. Wash in distilled water, 15 dips.
9. Stain in Nuclear Fast Red 0.1% (Kernechtrot) for 1 – 2 minutes.
10. Wash in distilled water, 15 dips.
11. Dehydrate in 95% Alcohol and Absolute Alcohol 15 dips each.
12. Clear in Xylene, 2 changes, 15 dips each.
13. Mount with Poly Mount (cat# s2153) or any other acceptable mounting medium.

**RESULTS:**

Melanin..... Dark Blue to Dark Green  
Background..... Red to Pink