

## J-612, TURNBULL BLUE METHOD FOR HEMOSIDERIN

**Fixation:** 10% Buffered Neutral Formalin (F-113) or absolute alcohol.

**Sections:** Paraffin @ 6 microns.

**Staining:**

1. Deparaffinize and hydrate to distilled water.
2. **Ammonium Sulfide** (J-612-1) for 4 hours. Rinse thoroughly in distilled water.  
NOTE: Loss of sections sometimes occurs in Ammonium Sulfide. Dilution of one part Ammonium Sulfide with 3 parts of 95% Alcohol is a way to avoid this problem.
3. Stain in working\* Hydrochloric Acid-Potassium Ferricyanide solution for 20 minutes. Rinse thoroughly in distilled water.  
  
\*Prepare working stain by mixing equal volumes of **Hydrochloric Acid, 1%** (J-612-2) and **Potassium Ferricyanide, 20%** (J-612-3) just before use.
4. Counterstain for 5 minutes in **Nuclear Fast Red Solution** (J-612-4). Rinse in distilled water.
5. Dehydrate in 95% Alcohol, absolute alcohol, and clear in Xylene, two changes each.
6. Mount with **Permount** (M-18).

**Stain Results:**

Hemosiderin	Blue
Nuclei	Red

**References:**

Mallory, F.B., Pathological Technique, Hafner Publ. Co., N.Y., P.138, 1961

Luna, L.G., (ed.), Manual of Histologic Staining Methods of the AFIP, 3<sup>rd</sup> ed., McGraw-Hill, N.Y., P. 178, c. 1968