ROWLEY
BIOCHEMICAL
INC.

DANVERS INDUSTRIAL PARK
10 ELECTRONICS AVENUE,
DANVERS MA 01923
TEL: 978-739-4883 FAX: 978-739-5640

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, 3rd ed., McGraw-Hill, N.Y., P. 178, c. 1968