LILLIE'S METHOD FOR TURNBULL'S BLUE REACTION

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of ferrous iron in tissue.
PRINCIPLE:	In an acid medium, ferrous iron is able to reduce the Ferricyanide Solution to Turnbull's Blue and bind it selectively. Ferric iron cannot do this.
CONTROL:	Any tissue known to contain iron
	Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs007.
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	1. Hydrochloric Acid – Potassium Ferricyanide Set Item# s2341 Working Solution: Make fresh before use. Potassium Ferricyanide 400 mg 0.06 N Hydrochloric Acid 40 mL 2. Hydrochloric Acid 0.01 N Aqueous Item# s1829 3. Basic Fuchsin 0.5% in 1% Acetic Acid Item# s2343 Solutions can be purchased separately from Poly Scientific.
NOTES:	For critical work omit counterstain.
REFERENCE:	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts</u> . American Histolabs Inc. Gaithersburg, MD. 1992. pp. 323-333.

STAINING PROCEDURE:

- 1. Deparaffinize and hydrate to distilled water.
- Immerse slides in a fresh solution of Potassium Ferricyanide in 0.06 N Hydrochloric Acid for 1 hour.
- Wash slides in Hydrochloric Acid 0.01 N Aqueous. 3.
- Stain 5-10 minutes in Basic Fuchsin 0.5% in 1% Acetic Acid.
- 5. Wash in distilled water.
- Dehydrate, clear in Xylene and mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

BackgroundPink-Red

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