## PTAH METHOD FOR CENTRAL NERVOUS SYSTEM TISSUE

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of central nervous system tissue.
PRINCIPLE:	The stain has been referred to as a polychrome stain because one solution produces two major colors. PTAH is believed to function metachromatically, although the exact mechanism is not well known. The components colored red-brown will lose this color with water or prolonged alcohol washes, and dehydration of the section following staining must be rapid.
CONTROL:	Any tissue known to contain central nervous system  Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs031.
SPECIMEN PREPARATION:	10% Buffered Formalin fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	<ol> <li>Zenker Fluid Modified (Zinc Chloride) Item# s294</li> <li>Lugol's Iodine Working Solution Item# s234A</li> <li>Potassium Permanganate 1% Aqueous Item# s2200</li> <li>Oxalic Acid 5% AqueousItem# s2199</li> <li>Phosphotungstic Acid Hematoxylin (PTAH)         Item# s254</li> </ol> Solutions can be purchased separately from Poly Scientific.
NOTES:	
REFERENCE:	Luna, Lee G. Manual of Histologic Staining Methods of the Armed  Forces Institute of Pathology. 3rd Ed. McGraw-Hill Book Co. New  York. 1968. pp. 199-200.

## STAINING PROCEDURE:

- 1. Deparaffinize and hydrate slides to distilled water.
- 2. Mordant sections in Zenker Fluid Modified containing Glacial Acetic Acid over night or at 60°C for 1 hour.
- 3. Wash in running water for 15 minutes.
- 4. Oxidize in Potassium Permanganate 1% Aqueous for 5 minutes.
- 5. Decolorize in Oxalic Acid 5% Aqueous for 5 minutes.
- 6. Rinse well in distilled water followed by running water for 5-10 minutes.
- 7. Place in PTAH for 24 hours.
- 8. Place in 95% Alcohol for 1 quick dip.
- 9. Dehydrate in Absolute Alcohol for 1 quick dip.
- 10. Clear in Xylene, 2 changes.
- 11. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

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Nuclei, Fibrin, Fibroglia,	, Microglia	Blue
Coarse Elastic Fibers		 Purplisl

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