

**LINDQUIST'S METHOD FOR COPPER (WILSON'S DISEASE)**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of copper.
<b>PRINCIPLE:</b>	Rhodanine competes with copper for its binding site thus demonstrating copper associated protein.
<b>CONTROL:</b>	Fetal liver or other liver known positive for copper <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs029.</i>
<b>SPECIMEN PREPARATION:</b>	Formalin fixed, paraffin embedded sections cut at 6 micrometers
<b>SOLUTIONS:</b>	1. Rhodanine Working Solution Item# s2044 2. Dilute Mayer's Hematoxylin Item# s2042 3. Sodium Borax 0.5% Aqueous Item# s2041  <i>Solutions can be purchased separately from Poly Scientific.</i>
<b>NOTES:</b>	
<b>REFERENCE:</b>	Lindquist, R.R. "Studies on the Pathogenesis of Hepatolenticular of Degeneration. II. Cytochemical Methods for the Localization of Copper" <i>Arch. of Path.</i> 1969:87.370-9.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Incubate in Rhodanine Working Solution at 37°C for 18 hours.
3. Wash well in several changes of distilled water.
4. Place in Dilute Mayer's Hematoxylin for 10 minutes.
5. Rinse in distilled water.
6. Quickly rinse in Sodium Borax 0.5% Aqueous.
7. Rinse well in distilled water.
8. Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
9. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Copper ..... Bright Red  
Nuclei..... Light Blue

*Poly Scientific R&D Corp.*

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