

**UZMAN'S METHOD FOR COPPER**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of copper in tissue.
<b>PRINCIPLE:</b>	Rubeanic Acid chelates copper in tissue forming a black precipitate. Sodium Acetate is necessary to limit the reaction to copper.
<b>CONTROL:</b>	Liver known positive for copper deposits <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. Rubeanic Acid (Dithiooxamide) Item# s188D 2. Sodium Acetate (included with above)  <i>Solutions can be purchased separately from Poly Scientific.</i>
<b>NOTES:</b>	<i>Note:</i> Look for copper under high power.
<b>REFERENCE:</b>	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts</u> . American Histolabs Inc. Gaithersburg, MD. 1992. pp. 345-346.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to water.
2. Rubeanic Acid Solution for 20 minutes.
3. Add Sodium Acetate (0.1 g / 50 mL) to the staining jar and allow to settle to the bottom. Leave slides for 24 hours at room temperature.
4. Place in 70% Alcohol, 2 changes of 1 1/2 hours each.
5. Absolute Alcohol, 24 hours.
6. Clear in Xylene, 2 changes.
7. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Copper .....Fine granular black precipitate

*Poly Scientific R&D Corp.*

Revision: B-18

