

**MAYER'S MUCICARMINE METHOD FOR MUCIN & CRYPTOCOCCUS**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of mucin or Cryptococcus.
<b>PRINCIPLE:</b>	Aluminum is believed to form a chelate complex with the carmine, changing the molecule to a positive charge allowing it to bind with acid substrate of low density such as mucins.
<b>CONTROL:</b>	Normal small intestine <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs006.</i>
<b>SPECIMEN PREPARATION:</b>	Formalin fixed, paraffin embedded sections cut at 6 micrometers
<b>SOLUTIONS:</b>	1. Weigert's Iron Hematoxylin Sol Set (A & B) Item# s216B <i>Working Solution:</i> Mix equal parts of solutions A & B. 2. Metanil Yellow 0.25% Aqueous Item# s239 3. Mayer's Mucicarmine Solution Item# s246 <i>Working Solution:</i> Mucicarmine .....20 mL Distilled Water .....80 mL  <i>Solutions can be purchased separately from Poly Scientific.</i>
<b>NOTES:</b>	
<b>REFERENCE:</b>	Luna, Lee G. <u>Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology</u> . 3rd Ed. McGraw-Hill Book Co. New York.1968. p. 161-162.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Place slides in Weigert's Iron Hematoxylin Working Solution for 5 minutes.
3. Wash well in running water for at least 5 minutes.
4. Place slides in Metanil Yellow 0.25% Aqueous for 1 minute.
5. Rinse quickly in water.
6. Place in Mayer's Mucicarmine Working Solution for 60 minutes.
7. When satisfactory, wash quickly in 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:**

Mucins ..... Bright Rose  
 Nuclei ..... Black  
 Connective Tissue ..... Yellow  
 Cryptococcus ..... Red

*Poly Scientific R&D Corp.*

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