

**SOUTHGATE'S MUCICARMINE METHOD**

<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 chelation complex with the carmine, changing the molecule to a positive charge allowing it to bind with acid substrates 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, embedded sections cut at 6 micrometers
<b>SOLUTIONS:</b>	<p>1. Southgate's Mucicarmine Stock Solution Item# s2161 <i>Working Solution:</i> Stock Mucicarmine.....10 mL Distilled Water.....90 mL</p> <p>2. Weigert's Iron Hematoxylin Solution Set (A &amp; B) Item# s216B <i>Working Solution:</i> Mix equal parts of solutions A &amp; B for use.</p> <p>3. Metanil Yellow 0.25% Aqueous Item# s239</p> <p><i>Solutions can be purchased separately from Poly Scientific.</i></p>
<b>NOTES:</b>	
<b>REFERENCE:</b>	Bancroft, J. D. & Stevens, A. <u>Theory and Practice of Histological Techniques</u> . 4th Ed. Churchill Livingstone. New York. 1996. p. 197.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Stain in Weigert's Iron Hematoxylin for 5 minutes.
3. Wash in running water for 10 minutes.
4. Stain in Southgate's Mucicarmine Working Solution for 30 minutes.
5. Rinse quickly in distilled water.
6. Counterstain in Metanil Yellow 0.25% Aqueous for 1 minute.
7. Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes.
8. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Mucin ..... Dark Rose

Capsule of  
Cryptococcus..... Dark Rose

Nuclei..... Black

Other Tissue Elements ..... Yellow

*Poly Scientific R&D Corp.*

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