

**VAN GIESON'S METHOD FOR COLLAGEN FIBERS**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of fungi and Pneumocystis Carinii in tissue.
<b>PRINCIPLE:</b>	The positive nuclei are stained by an anionic iron hematein lake. Differential staining is attributed to competition between dyes for binding sites. The smaller dye will stain the denser tissue while the larger dye will stain the less dense collagen.
<b>CONTROL:</b>	Uterus, tendon, skin with healed scar tissue <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs025.</i>
<b>SPECIMEN PREPARATION:</b>	Any well-fixed tissue, paraffin embedded sections cut at 6 micrometers
<b>SOLUTIONS:</b>	1. Weigert's Iron Hematoxylin Solution Set (A & B) Item# s216B <u>Working Solution:</u> Mix equal parts of solutions A & B for use. 2. Van Gieson's Solution Item# s289  <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. pp. 76-77.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Weigert's Iron Hematoxylin Solution for 5 minutes.
3. Wash in distilled water.
4. Van Gieson's Solution for 3 minutes.
5. Rapidly dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
6. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Collagen.....Red  
Muscle, Cornified Epithelium .....Yellow  
Nuclei.....Blue to Black

*Poly Scientific R&D Corp.*

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