

**WEIGERT'S METHOD FOR ELASTIC FIBERS**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of elastic fibers.
<b>PRINCIPLE:</b>	An Iron Hematoxylin is used here since it will resist removal by the acidic stain that follows. The Iron Resorcin Fuchsin lake binds to elastic fibers selectively. The stain is self-differentiating due to the high acidity and alcoholic content. The counterstain binds selectively by dye competition, size and charge.
<b>CONTROL:</b>	Artery, aorta  <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs011.</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 <i>Working Solution:</i> Mix equal parts of solutions A & B for use. 2. Resorcin Fuchsin Working Solution Item# s265 3. Van Gieson's Solution Item# s289  <i>Solutions can be purchased separately from Poly Scientific.</i>
<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. pp 194-195.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Weigert's Iron Hematoxylin Solution for 10 minutes.
3. Wash well in distilled water. A long wash intensifies the stain.
4. Place slides in Resorcin Fuchsin Working Solution for 30-45 minutes or longer.
5. Rinse in 95% Alcohol.
6. Wash in tap water.
7. Van Gieson's Solution for 1 minute. Save solution. If overstained, water will remove excess Van Gieson's Solution.
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:**

Elastic Fibers ..... Blue Black to Black  
 Nuclei..... Blue to Black  
 Collagen..... Pink to Red  
 Other Elements ..... Yellow

*Poly Scientific R&D Corp.*

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