

**ORCEIN STAIN METHOD FOR ELASTIC FIBERS**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of elastic fibers.
<b>PRINCIPLE:</b>	Orcein in an acid media will selectively stain elastic fibers. Counterstaining demonstrates other tissue components in proximity.
<b>CONTROL:</b>	Artery <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs011.</i>
<b>SPECIMEN PREPARATION:</b>	Formalin, Formalin Alcohol or Absolute Alcohol fixed, paraffin embedded sections cut at 6-10 micrometers
<b>SOLUTIONS:</b>	1. Acid Orcein Alcoholic Solution Item# s108A 2. Dilute Giemsa for Orcein Stain Working Sol Item# s196G 3. Eosin Y 0.02% Alcoholic Item# s2049  <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. 77-78.

**STAINING PROCEDURE:**

1. Deparaffinize in 3 changes each of Xylene, Reagent Alcohol, 70% Alcohol.
2. Acid Orcein Alcoholic Solution for 30 minutes.
3. Wash in running water for 15 minutes.
4. Stain overnight in Dilute Giemsa for Orcein Stain Working Solution.
5. Drain off excess fluid. If sections do not have the desired rose-pink color of the collagen, decolorize slightly and counterstain with Eosin Y 0.02% Alcoholic.
6. Dehydrate in Absolute Alcohol and clear in Xylene, 2 changes each.
7. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Nuclei.....	Deep Blue
Cytoplasm of Epidermis, Smooth Muscle, and Other Cells.....	Light Blue
Collagen.....	Rose Pink
Elastic Fibers.....	Dark Brown
Mast Cell Granules and Many Mucoïd Substances.....	Purple
Eosinophilic Granules and Erythrocytes.....	Bright Red

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