

**HEMATOXYLIN BASIC FUCHSIN PICRIC ACID METHOD**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of ischemic myocardium.
<b>PRINCIPLE:</b>	Ischemic myocardium will take up both stains causing the characteristic brown coloring while normal myocardium will only take up the Basic Fuchsin and be stained red.
<b>CONTROL:</b>	Ischemic myocardium
<b>SPECIMEN PREPARATION:</b>	Formalin fixed, paraffin embedded sections cut at 4 micrometers
<b>SOLUTIONS:</b>	1. Harris Hematoxylin with Glacial Acetic Acid Item# s212A 2. Basic Fuchsin 0.1% Aqueous Item# s121 3. Picric Acid Acetone 0.1% Item# s1867  <i>Solutions can be purchased separately from Poly Scientific.</i>
<b>NOTES:</b>	
<b>REFERENCE:</b>	Lie, J.T., Holley, K.E., and Titus, J.L. "Fuchsinorrhagia-A New Histochemical Indication of Inapparent Early Myocardial Ischemia". <u>Lab Med.</u> 3:1972. pp. 37-40.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Stain in Harris Hematoxylin with Glacial Acetic Acid for 5 minutes.
3. Wash in running water for 5 minutes.
4. Stain in Basic Fuchsin 0.1% Aqueous for 3 minutes. Discard solution.
5. Rinse briefly, 5-10 seconds, in distilled water.
6. Rinse briefly, 5-10 seconds, in Absolute Acetone.
7. Differentiate in Picric Acid Acetone 0.1% until the red color runs off the section, 15-20 seconds.  
*Note: Too much or too little decolorization produces false positives and false negatives, respectively. Solution should be changed for every 3-5 slides.*
8. Rinse briefly, 5-10 seconds, in Absolute Acetone.
9. Clear in Xylene and mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Acutely Ischemic Myocardium ..... Crimson Red  
 Normal Myocardium ..... Light Brown  
 Nuclei ..... Blue–Purple  
 Red Blood Cells, Fibrin, Plasma, Proteins, Elastic Fibers, Collagen ..... Red

*Poly Scientific R&D Corp.*

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