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VERHOEFF'S ELASTIC STAIN KIT PROCEDURE

CLSG81052

Lot:

KIT COMPONENTS INCLUDED:

250 ml	Alcoholic Hematoxylin (5%)	125 ml	Ferric Chloride (10%)
125 ml	Universal Iodine Solution	125 ml	Sodium Thiosulfate (5%)
125 ml	Van Gieson's Stain		

PRINCIPLE: This stain kit demonstrates elastic fibers.

SPECIMEN: Any well fixed paraffin embedded tissue cut at 6 microns.

SOLUTIONS:

VERHOEFF'S WORKING ELASTIC STAIN: 5% Alcoholic Hematoxylin 40.0 ml 10% Ferric Chloride 16.0 ml Universal Iodine Solution 16.0 ml Make fresh just before use. Filter once through a paper towel. <u>Do Not REUSE!</u>	2% FERRIC CHLORIDE DIFFERENTIATING SOLUTION 10% Ferric Chloride 20.0 ml Distilled Water 80.0 ml <u>Do Not REUSE!</u>
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PROCEDURE:

1. Deparaffinize slide with Xylene or Xylene Substitute and hydrate through alcohols to Tap water.
2. Place slide in **Verhoeff's Working Elastic Stain** for 15 minutes.
3. Rinse slide in Tap water.
4. Place slide in **2% Ferric Chloride Differentiating Solution** for 1 to 5 minutes; check section using microscope for desired result.
5. Rinse slide in Tap water.
6. Place slide in **5% Sodium Thiosulfate** for 1 minute.
7. Rinse slide in Tap water for 3 to 4 minutes.
8. Place slide in **Van Gieson's Stain** for 30 seconds.
9. Dehydrate slide through 3 changes of Absolute Alcohol.
10. Clear slide through 3 changes of Xylene or Xylene Substitute.
11. Cover slip using a permanent mounting media.

Continued...

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RESULTS:

Elastic Fibers: **BLACK**
Collagen: **RED**
Other Tissue: **YELLOW**

REFERENCE: Mallory: Pathological Techniques, pg 170.

Laboratory Reagent For Research Use Only

JV 03/30./10