

VERHOEFF'S ELASTIC STAIN KIT PROCEDURE

Item# KT 012

KIT COMPONENTS INCLUDED:

100 ml. 5% ALCOHOLIC HEMATOXYLIN
100 ml. UNIVERSAL IODINE SOLUTION
100 ml. VAN GIESON'S STAIN

100 ml. 10% FERRIC CHLORIDE
100 ml. 5% SODIUM THIOSULFATE

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.

Do Not REUSE!

2% FERRIC CHLORIDE DIFFERENTIATING SOLUTION

10% Ferric Chloride20.0 ml
Distilled Water.....80.0 ml

Do Not REUSE!

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. Coverslip using a permanent mounting media.

RESULTS:

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

REFERENCE: Mallory: Pathological Techniques, pg 170.

For Research Use Only. Not for Diagnostic or Therapeutic Work.

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product.

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