



VitroView™ Verhoeff Elastic Masson Trichrome Stain Kit

SKU#: VB-3034

Description:

A combined Verhoeff's elastic tissue Masson technique is presented which stains elastic fibers of all sizes, nuclei and connective tissue in a single tissue section. This kit is useful in identifying normal tissue morphology as well as heart, liver, lung and kidney pathologic conditions.

Kit Contents:

SKU#	Reagent Name	Volume (ml)
VB-3034-1	Ethanol saturated with picric acid	250 ml
VB-3034-2	Verhoeff's elastic stain solution A	150 ml
VB-3034-3	Verhoeff's elastic stain solution B	100 ml
VB-3034-4	Verhoeff's elastic stain solution C	50 ml
VB-3034-5	Biebrich scarlet-acid fuchsin solution	250 ml
VB-3034-6	Phosphotungstic acid solution	250 ml
VB-3034-7	Light green Solution	250 ml
VB-3034-8	1 % acetic acid solution	250 ml

Storage

Store at room temperature.

Protocol

1. Deparaffinize in xylene (6 minutes) *2
2. Rehydrate:
 - a. Ethanol 100% (2 minutes)*2
 - b. Ethanol 95% (2 minutes) *2
 - c. Ethanol 70% (2 minutes) *1.
 - d. Rinse in distilled water (2 minutes) *1.
2. Mordant in ethanol saturated with picric acid for 5 minutes
3. Wash sections in tap water for 5 min until yellow color disappears.
4. Freshly prepare modified Verhoeff's elastic stain solution: mix Verhoeff's elastic stain solution A, B and C at a ratio of 3:2:1.
5. Stain in modified Verhoeff's elastic stain for 6 min.
6. Wash in running tap water for 10 min.
7. Stain in Biebrich scarlet-acid fuchsin solution for 2-3 min.
8. Rinse in distilled water.
9. Place in phosphotungstic acid solution for 15 min.

10. Count stain in light green solution for 3 min.
11. Differentiate in 1 % acetic acid for 3 min.
12. Dehydrate with 2 changes of 95% Ethanol and 2 changes of 100% Ethanol (2 minute per change).
17. Clear with 2 changes of xylene (5 minute per change).
18. Mount cover slip onto glass slide with Permount or some other suitable organic mounting medium.

Control Tissue: Artery or lung tissue

Expected Results:

- Elastic fibers-----blue-black
- Nuclei-----reddish brown to blue-black
- Muscle, keratin & cytoplasm -----red
- Collagen-----green

Note: This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Precautions: Handle with care. Avoid contact with eyes, skin and clothing. Do not ingest. Wear gloves.