



VitroView™ Verhoeff Elastic Masson Trichrome Stain Kit

SKU#: VB-3034

Description:

The Verhoeff Elastic Masson Trichrome Stain offers a comprehensive method for simultaneously staining elastic, muscle, and connective tissue, making it ideal for routine use in histopathology. Verhoeff's technique renders the elastica black, creating a distinct contrast with the red-stained muscle and green or blue-stained connective tissue, achieved through a modification of Masson's trichrome. Additionally, cell nuclei exhibit reddish brown to blue-black hue with Weigert's iron hematoxylin. This kit is particularly well-suited for examining vascular pathology in experimental pathology, surgical and autopsy sections.

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	60 ml
VB-3034-4	Verhoeff's elastic stain solution C	60 ml
VB-3034-5	Biebrich scarlet-acid fuchsin solution	250 ml
VB-3034-6	Phosphotungstic/phosphomolybdic Acid Solution	250 ml
VB-3034-7	Aniline Blue 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: Ethanol 100% (2 minutes) ×2; Ethanol 95% (2 minutes) ×2; Ethanol 70% (2 minutes) ×1.
3. Rinse in distilled water (2 minutes) ×1.
4. Mordant in ethanol saturated with picric acid for 5 minutes
5. Wash sections in tap water for 5 min until yellow color disappears.
6. Freshly prepare modified Verhoeff's elastic stain solution: mix Verhoeff's elastic stain solution A, B and C at a ratio of 2.5:1:1.
7. Stain in modified Verhoeff's elastic stain for 6 min.
8. Wash in running tap water for 10 min. Rinse in distilled water for 1 min.
9. Stain in Biebrich scarlet-acid fuchsin solution for 2-3 min
10. Place in Phosphotungstic/phosphomolybdic Acid Solution for 15 min. discard solution.

11. Transfer directly into Aniline Blue Solution for 5 minutes.
12. 1% Acetic acid for 2-3 seconds discard solution.
13. 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.