

Victoria Blue Collagen Fiber Staining Solution

Cat #: A-CSH367

Size: 2×100mL

Storage: Room temperature, avoid light (12 months)

Product Composition

Component	Size	Store at
Reagent (A): Victoria Blue staining solution	100ml	10~30°C, and were protected from light
Reagent (B): VG staining solution	100ml	10~30°C, and were protected from light

Product Description

Collagen fibers are the most widely distributed and abundant fibers in connective tissue, found in various organs, with the highest concentration in the skin, sclera, and tendons. Type I collagen fibers are mainly found in bone, skin, and tendon fibers; type II collagen fibers are primarily present in cartilage collagen; type III collagen fibers are mainly found in embryonic tissues, adult blood vessels, and the gastrointestinal tract; type IV collagen fibers are mainly located in the basement membrane. Methods for visualizing collagen fibers include Van Gieson staining, Masson's trichrome staining, Victoria blue collagen fiber staining, Sirius red staining, etc. Victoria blue collagen fiber staining solution is mainly composed of Victoria blue staining solution and VG staining, primarily used for studying abnormal collagen fibers or fibrosis in various tissue lesions. Under a light microscope, collagen fibers in tissues such as heart blood vessels are stained red. This staining solution is for research purposes only and is not intended for clinical diagnosis or treatment.

Usage

1. Fix the tissue in 10% formalin fixative and perform routine dehydration and embedding.
2. Dewax the sections in water using standard procedures.
3. Briefly rinse with 70% ethanol.

4. Immerse the sections in Victoria blue staining solution for 15 minutes.
5. Differentiate briefly in 95% ethanol.
6. Rinse twice with distilled water.
7. Stain with VG staining solution for 2 minutes.
8. Perform direct differentiation and dehydration using absolute ethanol.
9. Perform dehydration with absolute ethanol, clear with xylene, and mount with neutral mounting medium.

Staining Results

collagenous fiber	red
muscle	yellow

Notes

1. The active ingredients in the Victoria blue staining solution are volatile, so it is best to perform immersion staining and store the solution in a tightly sealed container.
2. After VG staining, avoid direct contact with water and proceed with dehydration using absolute ethanol.
3. For your safety and health, please wear laboratory attire and disposable gloves during the procedure.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.