Victoria Blue Elastic Fiber Staining Kit

Cat #: A-CSH321

Size: 4×50mL

Storage: Room temperature, avoid light (12 months)

Product Composition

Component		Size	Store at
reagent (A): Acid oxidant	Reagent (A1): oxidized solution	25ml	10~30°C, and were protected from light
	Reagent (A2): acidisolution	25ml	10~30°C
Before use, mix A1: A2=1:1 as acid oxidation liquid, which should not be prepared in advance.			
Reagent (B): Acid bleaching solution		50ml	10~30°C
Reagent (C): Victoria Blue staining solution		50ml	10~30°C, and were protected from light
Reagent (D): Nuclear solid staining solution		50ml	10~30°C, and were protected from light

Product Description

Elastic fibers are mainly found in the arterial walls, alveolar walls, and skin of the human body. They appear yellow when fresh and exhibit strong birefringence. Common staining methods for elastic fibers include Gomori's aldehyde fuchsin method, orcein basic fuchsin method, lichen red method, Victoria blue method, and iron iodide hematoxylin method.

The Victoria blue staining method for elastic fibers is a modification of the Tanaka Victoria blue method. It is used to visualize elastic fibers and hepatitis surface antigens. In clinical practice, it is used to observe whether there is hyperplasia or fragmentation of elastic fibers in tissues, assisting in diagnosis.

Usage

1. Fix the tissue in 10% neutral formalin fixative, followed by routine dehydration and embedding.

2. Cut sections with a thickness of 4μm and dewax the sections to water.

3. Oxidize in acidic oxidizing solution for 5 minutes.

4. Rinse slightly with tap water.

5. Bleach in acidic bleaching reagent for 2 minutes until all staining from the previous oxidizing agent is removed.

6. Rinse with tap water for 5 minutes.

7. Wash in 70% ethanol.

8. Immerse the sections in the staining dish containing Victoria blue staining solution for 24 hours (cover the dish).

9. Wash twice in 70% ethanol for 10 seconds each time, lifting and lowering the sections until no more staining solution comes out.

10. Rinse briefly with running water.

11. Restain cell nuclei with nuclear fast red staining solution for 5-10 minutes.

12. Rinse briefly with running water.

13. Dehydrate, clear with xylene, and mount with neutral mounting medium following routine procedures

Staining Results

spandex	blue
nucleus	red

Notes

1. Most fixatives can be used, but fixatives containing chromium salts may result in lighter staining and easy diffusion.

2. The Victoria blue staining solution is stable and can be stored for a long time. It can be reused repeatedly, and the dish should be covered during staining.

3. The staining time with Victoria blue staining solution can range from 24 to 48 hours, with 24 hours being the most common.

4. For your safety and health, please wear a lab coat and disposable gloves while performing the procedure.

Disclaimer

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