

Victoria Blue Elastic Fiber Staining Kit

Catalog No.: RA20140

Basic Information

Product name	Victoria Blue Elastic Fiber Staining Kit
Sizes	50 mL
Storage	2-8 °C, keep away from light
Shipping	Shipped with ice pack
Validity	12 months

Product Introduction

Elastic fibers are mainly distributed in the walls of human arteries, alveolar walls and skin. Fresh fibers appear yellow with strong refractivity. Commonly used elastic fiber staining methods include Gomori aldehyde-fuchsin, Weigert's resorcin-fuchsin, orcein, Victoria blue and iron-iodine hematoxylin. Resorcin-basic fuchsin staining solution is used primarily for elastic fibers and is also known as Weigert's resorcin-fuchsin staining solution. Victoria blue, a triphenylmethane dye, can demonstrate elastic fibers and hepatitis B surface antigen. It is resistant to over-staining and the stained color fades very slowly.

EnkiLife Victoria Blue Elastic Fiber Staining Solution is intended for demonstrating elastic fibers and hepatitis B surface antigen. It helps to determine whether elastic fibers in tissues are proliferated, broken or disintegrated, thus assisting in diagnosis.

Product Components

Components		4x 50mL
Reagent (A): Oxidizer	A1: Oxidizer A	25 mL
	A2: Oxidizer B	25 mL
Mix A1 : A2 = 1 : 1 just before use; do not prepare in advance.		
Reagent (B): Bleach		50 mL
Reagent (C): Victoria Blue Staining Solution		50 mL
Reagent (D): Nuclear Fast Red Staining Solution		50 mL

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Materials Required (Not Supplied)

1. Graded ethanol series, xylene or eco-friendly dewaxing/transparent reagent, neutral balsam.
2. Staining jars.

Experimental procedure

1. Fix tissues in 10 % neutral buffered formalin, then process routinely for dehydration and paraffin embedding.
2. Cut sections at 4 μm , dewax with xylene or dewaxing/transparent reagent, and hydrate to water.
3. Immerse in oxidizer for 5 min, then rinse briefly in tap water.
4. Transfer to bleach for 2 min until all color from the oxidizer is removed; wash in running tap water for 5 min.
5. Rinse in 70 % ethanol.
6. Place sections in Victoria Blue Staining Solution and stain (with lid) for 24 h.
7. Rinse twice in 70 % ethanol, 10 s each, lifting and lowering the slide until no more dye leaches out.
8. Rinse briefly in running water.
9. Counterstain nuclei with Nuclear Fast Red Staining Solution for 5–10 min; rinse briefly in running water.
10. Dehydrate routinely, clear with xylene or dewaxing/transparent reagent, and mount with neutral balsam.

Staining Results

Component	Color
Elastic fibers	Blue
Nuclei	Red

Notes

1. Most fixatives are acceptable; however, chromate-containing fixatives yield pale, easily diffused staining.
2. Oxidizer A can be stored briefly at room temperature; 4 °C storage protected from light is preferable.
3. Victoria Blue Staining Solution is stable, has a long shelf-life, and can be reused repeatedly.

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4. Staining time with Victoria Blue may range from 24–48 h; 24 h is most commonly used.
 5. Use reagents promptly after opening to avoid compromising subsequent results.
 6. Wear a lab coat and disposable gloves for your safety and health.

This product is for research use only!