

Lichen Red Elastic Fiber Staining Solution

Cat. No.: L1518590 | Pack size: 3×50 mL | Storage: 2-8°C, protected from light; room temperature

Overview

Elastic fibers are mainly distributed in the arterial wall, alveolar wall, and skin of the human body. They appear yellow when fresh and possess strong refraction. Common staining methods for elastic fibers include Gomori Aldehyde Fuchsin method, Resorcin Fuchsin method, Orcein method, Victoria Blue method, Iron Iodine Hematoxylin method, etc. Elastic fiber staining can demonstrate changes of elastic fibers in skin tissue, such as elastofibroma, annular granuloma of the skin, and scleroderma; it can reveal and evaluate endocardial and arterial lesions, and observe whether certain lesions are accompanied by hyperplasia or destruction of elastic fibers. It can also be used to identify tumor components such as elastofibroma, in which elastic fiber globules can be clearly seen after elastic fiber staining.

Lichen Red Elastic Fiber Staining Solution is easy to operate and highly specific, but the staining effect may vary with different batches of raw materials, and sometimes it may stain lipofuscin in liver cells. This reagent is for research use only. Not for clinical diagnosis or other purposes.

Product Components and Storage Conditions

Cat. No.	Component	3×50 mL	Storage
L1518590A	Shikata Oxidizer	25 mL	2-8°C. Store in the dark.
L1518590B	Shikata Acid Solution	25 mL	RT
L1518590C	Shikata Washing Solution	50 mL	RT
L1518590D	Orcein Staining Solution	50 mL	2-8°C. Store in the dark.

Immediately before use, mix equal volumes of Solution A and Solution B to prepare Shikata Acid Solution. Prepare fresh and use immediately.

Materials Required

- 10% neutral formalin fixative, distilled water, graded ethanol, xylene or eco-friendly dewaxing and clearing agent, neutral balsam.

Protocol (For Reference Only)

1. Fix tissues in 10% neutral formalin fixative, then process for routine dehydration and embedding.
2. Cut sections at 4-5 μm thickness. Deparaffinize routinely with xylene or dewaxing agent and rehydrate to water.
3. Oxidize in Shikata Acid Solution for 5 min, then rinse briefly in water.
4. Bleach in Shikata Washing Solution for 2 min to remove color from the acid solution, then rinse in running water for 2 min.
5. Rinse briefly in 70% ethanol.
6. Stain covered in Orcein Staining Solution for 5 h or longer.
7. Dehydrate routinely, clear in xylene or dewaxing and clearing agent, and mount with neutral balsam.

Staining Results

Elastic fibers: Brownish red to dark brown.

Background: Grayish brown or pale pink to varying degrees.

Precautions

1. Shikata Acid Solution must be prepared fresh immediately before use. Prolonged standing after mixing will reduce its oxidizing activity.
2. Acid Orcein Staining Solution should be returned to room temperature before use. The staining solution can be reused several times.
3. After 5 h of staining, sections may be rinsed briefly in 70% ethanol, washed in distilled water, and examined microscopically. If staining is faint, sections may be rinsed in 70% ethanol and returned to Acid Orcein Staining Solution; overnight staining is acceptable if necessary.
4. Lipofuscin and HBsAg-positive substances may also stain positively with orcein. They can be distinguished as follows:

Lipofuscin: intensely stained, small granules of uniform size in the cytoplasm.

HBsAg: weakly stained, fine granular pattern.

Elastic fibers: intensely stained, non-granular.

5. Use reagents promptly after opening to avoid affecting experimental results.

6. For your safety and health, wear a lab coat and disposable gloves during operation.

Specifications

Attribute	Value
Synonyms	Lichen Red Elastane Dyeing Liquid set
Specifications & Purity	BioReagent, Biological Stain, for microscopy
Stability And Storage	Each component has a shelf life of 1 year under corresponding storage conditions.
Storage Conditions	Store at 2-8°C, Protected from light, Room temperature
Shipped In	Wet ice This product requires cold chain shipping. Ground and other economy services are not available.

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Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

NORTH AMERICAN SALES, SUPPORT & GENERAL INQUIRIES Aladdin Scientific Corporation 14078 Meridian Parkway, Riverside, CA 92518, USA Phone: 1-833-552-7181 Sales: sales@aladdinsci.com Customer Service: custserv@aladdinsci.com	EU SALES, LOGISTICS & LOCALIZED SUPPORT Aladdin Biochem Deutschland GmbH Westring 2, 33142 Büren, Germany Phone: +02951 9383958 Support: support.eu@aladdinsci.com
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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
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