

Eosinophil Staining Solution

Cat. No.: E1511531 | Pack size: 2 x 100 mL | Storage: Protected from light, room temperature

Overview

Eosinophils are inflammatory cells commonly associated with allergic diseases. Their cytoplasm contains secondary granules rich in basic proteins such as eosinophil cationic protein, eosinophil-derived neurotoxin and eosinophil peroxidase.

Eosinophil Staining Solution consists of Carbol 2R Staining Solution and Hematoxylin Staining Solution. It stains eosinophil cytoplasm pink and nuclei blue.

Key Features

- Two-component staining solution for eosinophils
- Carbol 2R stains eosinophil cytoplasm pink; hematoxylin stains nuclei blue
- Suitable for microscopy and research use
- Can also be adapted for cell smears with shortened staining time

Product Information

Item	Description
Synonyms	Eosinophil Stain
Specifications & Purity	BioReagent, Biological Stain, for microscopy
Stability & Storage	Store at room temperature long term (12 months). Store in the dark.
Storage Conditions	Protected from light, room temperature
Shipping	Normal
Grade	Biological Stain, BioReagent, for microscopy

Contents & Storage

Cat. No.	Component	2 x 100 mL	Storage
E1511531A	Carbol 2R Stain	100 mL	RT, protect from light
E1511531B	Hematoxylin Stain	100 mL	RT

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves, eye protection	Safe staining operation
Tissue sections or smears	Properly fixed specimens	Sample staining
10% neutral formalin fixative	Recommended for tissue fixation	Fixation
Distilled water	Fresh	Rinsing
Graded ethanol, clearing agent, neutral balsam	Histology grade	Dehydration, clearing and mounting
Microscope	Bright-field microscope	Observation

Preparation Before Use

1. Fix tissues with 10% neutral formalin fixative, then perform routine dehydration, embedding and dewaxing to water.
2. For cell smears, shorten staining time as needed and fix with 4% paraformaldehyde solution.
3. Use the reagent as soon as possible after opening to avoid affecting experimental results.

Protocol

Protocol (For Reference Only)

1. Perform tissue fixation, routine dehydration, embedding and dewaxing to water.
2. Stain in Carbol 2R Stain for 15-20 min, then rinse with distilled water.
3. Stain in Hematoxylin Stain for 3-8 min, then rinse with distilled water.
4. Dehydrate in graded ethanol, clear routinely and mount with neutral balsam.

Expected Results

Structure	Expected Color
Cytoplasm of eosinophils	Pink
Nuclei	Blue

Storage & Handling

Store as indicated on the product label: Protected from light, room temperature.

Shelf life: Store at room temperature long term (12 months). Store in the dark.

Safety & Precautions

1. If differentiation is unsatisfactory, 0.5% hydrochloric acid alcohol may be used for differentiation to remove background.
2. Can also be used for staining cell smears, but staining time should be shortened accordingly.
3. Use reagent as soon as possible after opening.
4. Wear a lab coat and disposable gloves during operation.
5. For research use only; not for clinical diagnosis or other purposes.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Conforms to the appearance described in this manual; no obvious contamination or abnormal precipitation unless specified.
Identity and labeling	Receipt inspection	Catalog number, lot number, size, storage condition and expiry date are legible.
Functional check	Run with representative sample or positive control	Expected staining, preservation, coagulation or assay performance is observed under the recommended procedure.

Troubleshooting

Issue	Possible Causes	Corrective Action
Weak staining	Staining time too short or reagent exhausted	Increase staining time within the recommended range or replace reagent.
Overstaining / high background	Staining time too long or inadequate washing	Shorten staining time and rinse thoroughly with water.
Uneven staining	Uneven sample thickness or insufficient reagent coverage	Prepare uniform smears/sections and ensure the specimen is fully covered.
Precipitate on slide	Unfiltered or aged staining solution	Filter staining solution when required and replace regularly.
Unexpected color	pH or contamination effects	Use clean slides and freshly prepared or uncontaminated reagents.

Recommended Applications

Eosinophil staining · Histological staining · Cytology staining · Tissue sections · Cell smears · Microscopy

Contact & Global Offices

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.

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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 kit for their specific application.
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