

Toluidine Blue O Stain Solution (For Cells)

Cat. No.: T1511051 | Pack size: 20ml / 50ml | Storage: Store at 2-8°C, Protected from light

Product Description

The cations in Toluidine Blue O exert the staining effect, and acidic substances in tissue cells combine with these cations to be stained. Toluidine Blue O also contains two auxochromes that promote the ionization of the dye to form salts, enhance the staining power of chromophores on tissues, and thus stain the tissue cells on sections-specifically, it can stain cell nuclei blue. Clinically, Toluidine Blue O is frequently used to stain chondrocytes and mast cells.

Toluidine Blue O Stain Solution (For Cells) is suitable for staining acidic mucopolysaccharides in cells, especially for staining sulfur-containing acidic mucous substances, which appear red after staining.

Operating Procedures (For Reference Only):

1. After preparing the cell smear, add Toluidine Blue Staining Solution (Cell-Specific) dropwise and stain for 5 minutes.
2. Add an equal volume of distilled water to the smear, mix well, and stain for another 15 minutes.
3. Rinse with water, air-dry the smear, and examine under a microscope.

Staining Result:

Acidic mucopolysaccharides in cells appear red.

Precautions:

1. To verify the staining effect, blood smears from chronic myeloid leukemia (eosinophils) or bone marrow smears from aplastic anemia (tissue eosinophils) can be used as controls.
2. For your safety and health, wear a lab coat and disposable gloves during operation.
3. This product is for research use only and shall not be used for any other purposes.

Product Information

Item	Information
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Item	Information
Cat. No.	T1511051
Product Name	Toluidine Blue O Stain Solution (For Cells) - BioReagent, Biological Stain, for microscopy
Synonyms	Toluidine Blue O Staining Solution Toluidine Blue Staining Solution Mast Cell Staining Solution
Application	Cell Staining
Storage	Store at 2-8°C, Protected from light
Shipped In	Wet ice

Specifications

Parameter	Specification
Synonyms	Toluidine Blue O Staining Solution Toluidine Blue Staining Solution Mast Cell Staining Solution
Specifications & Purity	BioReagent, Biological Stain, for microscopy
Stability And Storage	Store at 2-8°C long term (12 months). Store in the dark.
Storage	Store at 2-8°C, Protected from light
Shipped In	Wet ice. This product requires cold chain shipping. Ground and other economy services are not available.

Safety & Precautions

- Read the current Safety Data Sheet (SDS) before use and follow local laboratory safety and EHS requirements.
- Wear appropriate personal protective equipment, including lab coat, gloves, and eye protection.
- Use only for research and laboratory applications. Do not use for human or animal diagnostics, therapeutics, food, household, or cosmetic applications.
- Maintain the specified cold-chain or refrigerated storage condition and avoid repeated freeze-thaw cycles when applicable.
- Protect from light during storage and handling as specified on the product label.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Solution should be clear and free from visible contamination unless otherwise stated on the COA.
Product identity and specifications	Lot-specific quality testing	Conforms to the approved product specification and certificate of analysis.
Storage and packaging	Label and packaging inspection	Pack size, storage condition, lot number, and expiry information are verified before release.

Troubleshooting

Issue	Possible Causes	Corrective Action
Weak or uneven staining	Insufficient reagent contact, incomplete sample preparation, or expired/contaminated reagent	Ensure complete coverage of the sample, prepare specimens according to the recommended procedure, and use reagent within the labeled shelf life.
Excessive background	Over-staining, inadequate washing, or unsuitable differentiation/dehydration conditions	Optimize staining time and washing steps. Adjust differentiation, dehydration, or clearing according to sample type.
Precipitate or particles observed	Improper storage or contamination during handling	Mix gently before use if appropriate. Do not use if contamination is suspected; consult the lot-specific COA and SDS.

Recommended Applications

Cell Staining.

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.



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

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 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.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document should be reviewed and reissued.