

Mycoplasma Staining Solution(DNA Fluorescent Staining Method)

Cat. No.: M1524666 | Pack size: 10 mL | Storage: Protected from light,Store at -20°C,Avoid repeated freezing and thawing

Overview

Mycoplasma Staining Solution (DNA Fluorescent Staining Method) is a reagent for in-situ staining to detect mycoplasma or other prokaryotes in cultured cells. It is mainly used to verify mycoplasma contamination in cultured cells.

Bacterial, yeast and mold contamination in cultured cells can be observed under an optical microscope. However, mycoplasma contamination cannot be visualized under an optical microscope and must be examined by dedicated methods. Common mycoplasma detection approaches include mycoplasma isolation and culture, mycoplasma-specific enzyme assay, RT-PCR assay, and DNA fluorescent staining. This product detects mycoplasma via DNA fluorescent staining, enabling rapid, effective and highly-sensitive identification of mycoplasma contamination.

Operating Procedures:

1. Add Mycoplasma Detection Staining Solution at a ratio of 2 drops per mL of culture medium.
2. Incubate at room temperature for 15-30 minutes.
3. Observe under a fluorescence microscope (wavelength: 360~400 nm).

Case Analysis:

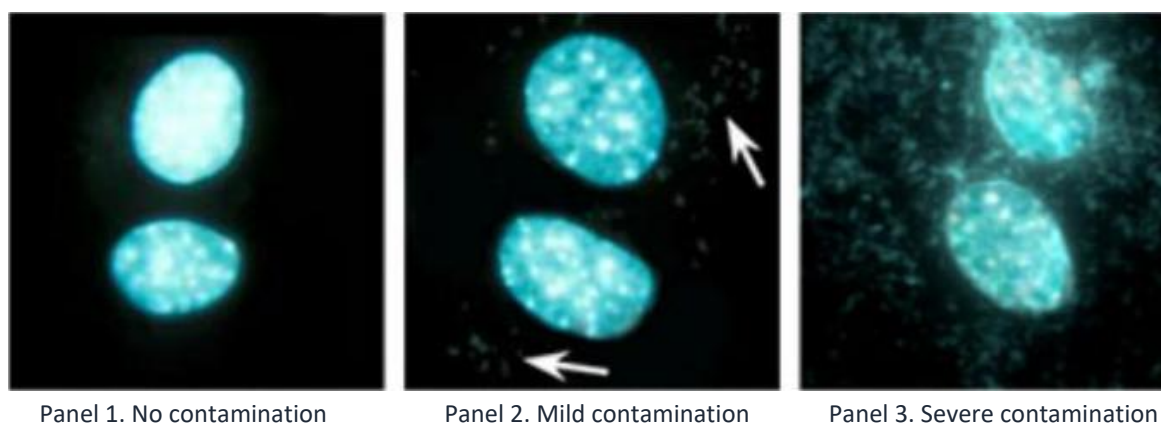


Figure 1. Representative mycoplasma staining results.

Refer to the figure above for reference detection results of this kit.

Figure 1, panel 1 shows the condition without mycoplasma contamination. Figure 1, panel 2 shows mild mycoplasma contamination; particulate mycoplasma particles are indicated by arrows. Figure 1, panel 3 shows severe mycoplasma contamination, where abundant particulate mycoplasma can be observed.

Precautions:

1. This staining reagent is hazardous to human body. Handle with caution and take adequate protective measures to avoid direct physical contact or inhalation.
2. Fluorescent dyes are susceptible to photobleaching. It is recommended to complete detection on the same day after staining.
3. This product is for scientific research use by professionals only. Wear a lab coat and gloves during operation for your safety and health.

Product Information

Item	Details
Specifications & Purity	BioReagent, Suitable for microbiology, Biological Stain, for Cell culture, for Microscopy
Stability And Storage	Store at -20°C long term (12 months). Store in the dark. Upon receipt, it is recommended to aliquot. Avoid freeze/thaw cycle.
Storage	Protected from light. Store at -20°C, Avoid repeated freezing and thawing
Shipped In	Ice chest + Ice pads. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	Biological Stain, BioReagent, for Cell culture, for Microscopy, Suitable for microbiology
Application	Cell Culture, Microbial 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
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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.
- ☐ 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 would be reviewed and reissued.