

Glycogen Staining Solution (1%)

Cat. No.: G1525447 | Pack size: 100ml; 500ml | Storage: Protected from light, Room temperature

Overview

Yeasts are unicellular eukaryotic microorganisms with distinct differentiation between cell nucleus and cytoplasm. Yeast cells are generally oval, spherical, cylindrical or lemon-shaped, and each strain has a specific morphological size. Attention should be paid to cell morphology when observing individual yeast cells. One or several transparent tiny droplets known as vacuoles exist in the cytoplasm of yeast cells. Vacuoles of vigorously growing yeast contain no inclusions, while vacuoles in aged cells accumulate granular storage substances such as fat droplets and glycogen granules. Vacuoles can be stained red with neutral red; fat droplets can be stained blue-black with Sudan Black; glycogen granules can be stained dark reddish-brown with iodine solution. These special structures inside yeast cells can then be observed under an optical microscope.

1% Glycogen Granule Staining Solution is mainly composed of potassium iodide and 1% iodine. It is applied to stain yeast smears, staining glycogen granules inside yeast cells deep red or reddish-brown. This reagent is intended solely for scientific research and shall not be used for clinical diagnosis or other purposes.

Operating Procedures (For Reference Only):

1. Prepare a smear of *Saccharomyces cerevisiae* and allow it to air-dry naturally.
2. Drop 1~2 drops of this staining solution onto the smear and stain for 1~2 minutes.
3. Place a coverslip over the sample and observe the staining result under a microscope.

Precautions:

1. Mark a circle on the reverse side of the slide before preparing the smear to locate the observation area in follow-up experiments.
2. This product is restricted to scientific research performed by professional personnel. It must not be used for clinical diagnosis or treatment, food or pharmaceutical production, nor stored in residential premises.
3. Wear a lab coat and disposable gloves during operation to ensure personal safety and health.

Specifications

Item	Information
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Item	Information
Synonyms	Yeast Glycogen Iodine Staining Solution
Specifications & Purity	BioReagent, Suitable for Yeasts, Biological Stain, for Microscopy, 1% (w/v) in Water
Stability And Storage	Store at room temperature long term (12 months).Store in the dark.
Storage	Protected from light, Room temperature
Shipped In	Normal

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.
- ☐ 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.