

Tissue Storage Solution

Cat. No.: O1372282 | Pack size: 100 mL | Storage: Protected from light, Store at -20°C

Product Information

Item	Description
Specifications & Purity	BioReagent, ready-to-use Stability And Storage Store at -20 long term (24 months). Store in the dark. Upon receipt, it is recommended to aliquot. Avoid freeze/thaw cycle.
Storage Conditions	Protected from light, Store at -20°C
Shipped In	Ice chest + Ice pads This product requires cold chain shipping. Ground and other economy services are not available.

Product Description

Tissue Preservation Solution is a ready-to-use, low-temperature transport and storage solution designed for the short-term preservation and transport of fresh human and animal tissue samples. It effectively prevents cellular apoptosis, necrosis, and other detrimental phenomena during sample storage or transport, ensuring cell functionality and viability while preserving tissue activity for up to 72 hours. Fresh tissue preserved and transported using this solution is suitable for single-cell sequencing, immunohistochemistry (IHC) detection, and the stable preservation of RNA and DNA.

Product Features

This product maintains the viability of the majority of cells within tissue samples for up to 72 hours under conditions of 2–8°C.

This product contains antioxidants. Depending on actual research requirements, and to prevent potential interference from antioxidants, tissue samples should be rinsed 2–3 times with normal saline or phosphate-buffered saline (PBS) prior to subsequent use.

This product allows for the bulk preservation of tissue samples, ensuring experimental consistency.

Instructions for Use

1. Preparation of Viable Tissue

1.1 Ensure that the fresh tissue is free from fungal, bacterial, and mycoplasma contamination.

1.2 Select an appropriate region of viable tissue, remove necrotic or excess tissue, and eliminate residual blood.

1.3 For solid tissue samples, use surgical scissors or a scalpel to trim the tissue block to an optimal size of approximately 0.5 cm width × 0.5 cm thickness.

Note: Excessively large tissue blocks will impede the exchange of metabolic waste products and nutrients within the preservation solution. If trimming to 0.5 cm × 0.5 cm is not feasible, the tissue should at least be trimmed to a thickness of approximately 0.5 cm.

2. Preparation of Transport Preservation Solution

2.1 Pre-chill this product to 2–8°C before use. Biological samples should be maintained at 2–8°C throughout the transport and storage process.

2.2 After estimating the sample volume, use at least 5 times the volume of Tissue Preservation Solution relative to the tissue volume. Immerse the tissue completely in the solution. If the sample contains vascular or luminal structures, first flush and perfuse the lumen with this product before fully immersing the sample in the solution. Note: Using 5–10 times the volume of Tissue Preservation Solution allows for the transport and preservation of viable tissue for 24–72 hours. If the preservation time is less than 6 hours, the volume of preservation solution may be reduced at your discretion, provided the tissue block remains fully submerged.

3. Isolation of Viable Cells, Tissue Culture, and PDX Inoculation

Preserved tissue can be used directly for subsequent experiments and research. As this product contains antioxidants, and to prevent potential interference from antioxidants depending on actual research requirements, tissue samples should be rinsed 2–3 times with normal saline or phosphate-buffered saline (PBS) before further processing.

Precautions

This product is intended for scientific research use by qualified professionals only. It is not for clinical diagnostic or therapeutic use, nor for use in food or pharmaceuticals. For your safety and health, please wear a lab coat and disposable gloves during handling.

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.