

Non-freezing Bacteria RNA Preservation Solution

Cat. No.: B1520266 | Pack size: 100 mL / 500 mL | Storage: Room temperature

Overview

This product is a ready-to-use, non-freezing bacterial RNA preservation solution suitable for preserving RNA in bacteria at room temperature.

The non-denaturing formulation inhibits nuclease activity without altering the original structure of biomacromolecules, facilitating bacterial sample collection, room-temperature transport and subsequent molecular biology analysis.

Key Features

- Ready-to-use preservation solution for bacterial RNA samples
- No liquid nitrogen, dry ice or -80 °C freezer required for short-term preservation
- RNA in bacteria can be stably preserved at 4-25 °C for up to 15 days
- Preserved samples are compatible with total RNA extraction, reverse transcription and one-step RT-PCR

Product Information

Item	Description
Synonyms	RNAlocker Bacteria Transport Medium
Specifications & Purity	BioReagent, suitable for molecular biology, ready-to-use
Stability & Storage	Store at room temperature long term (24 months).
Storage Conditions	Room temperature
Shipping	Normal
Grade	BioReagent, ready-to-use, suitable for molecular biology

Contents & Storage

Cat. No.	Product	Size	Storage
B1520266-100mL	Non-freezing Bacteria RNA Preservation Solution	100 mL	RT
B1520266-500mL	Non-freezing Bacteria RNA Preservation Solution	500 mL	RT

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves, eye protection, mask	RNase-safe handling
Sterile collection tubes	RNase-free, tightly sealable	Sample preservation and transport
Microcentrifuge	Capable of 10,000 rpm	Bacterial pellet collection
Pipettes and tips	RNase-free	Transfer of culture and preservation solution
Bacterial RNA extraction reagents	Validated routine method	Downstream RNA purification

Preparation Before Use

1. Work under clean, preferably sterile, RNase-controlled conditions.
2. Equilibrate bacterial cultures and preservation solution to room temperature before use.
3. Label collection tubes before sample transfer.

Protocol

Usage Instructions

1. Take 1 mL of overnight bacterial culture and place it at room temperature. Centrifuge at 10,000 rpm for 1 minute and discard the supernatant.

2. Add 1 mL of Non-freezing Bacteria RNA Preservation Solution to the bacterial pellet. Mix thoroughly until the pellet is completely and evenly dispersed without clumps.
3. Transfer the mixed suspension to a labeled collection tube and tightly close the cap.
4. Store the tube containing the sample and preservation solution at an appropriate temperature. For long-term storage, ensure that the storage temperature does not fall below 4 °C.
5. For RNA extraction, follow the routine bacterial RNA extraction procedure without additional pretreatment of the preserved bacterial sample.

Storage & Handling

Store as indicated on the product label: Room temperature.

Shelf life: Store at room temperature long term (24 months).

Safety & Precautions

1. This reagent is for research use only and is not intended for clinical diagnosis or other non-research uses.
2. Avoid exogenous RNase contamination by using RNase-free consumables and clean technique.
3. If bacterial culture concentration is high or longer preservation is required, increase preservation solution volume proportionally or reduce pellet amount so the sample is fully protected.
4. Wear appropriate PPE and follow institutional biosafety procedures for bacterial samples.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Clear and free of visible contamination.
Preservation performance	RNA extraction followed by gel/Bioanalyzer or RT-PCR	RNA integrity supports downstream molecular biology applications.
Labeling	Receipt inspection	Catalog number, lot number, size and expiry date are legible.

Troubleshooting

Issue	Possible Causes	Corrective Action
RNA degradation	RNase contamination or insufficient preservation solution	Use RNase-free consumables; ensure pellet is completely dispersed and fully immersed.
Bacterial clumping	Insufficient mixing	Pipette or vortex gently until suspension is homogeneous.
Poor downstream extraction	Excessive bacterial input	Reduce pellet amount or increase preservation solution volume before storage.

Recommended Applications

Room-temperature bacterial RNA preservation · Field sample collection · Room-temperature sample transport · Total RNA extraction · RT-PCR and one-step RT-PCR sample preparation

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.