

MicrobiomeLiv™

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
MicrobiomeLiv™	ML247-100ML	100ML
	ML247-250ML	250 ml

Intended Use

Recommended for the preservation of Microbiome samples for the isolation of Nucleic acids for downstream applications.

Introduction

MicrobiomeLiv™ stabilizes and protects Nucleic acids in Microbiome samples which eliminates the need of immediate processing or to freeze samples in liquid nitrogen for later processing. It is a single reagent that immediately inactivates DNases and RNases and stabilizes DNA/RNA within the samples. MicrobiomeLiv™ stabilizes DNA/RNA up to 3 days at 37°C, 1 month at 4°C-25°C or at -20°C (up to 20 freeze–thaw cycles).

Application

MicrobiomeLiv™ is ideal for:

- Protecting Nucleic acid integrity in samples rich in nucleases
- Collecting samples from different time points without having to process the samples from each time point immediately
- Preserves genetic integrity and expression profiles of samples (Animal cells, tissues, stool) at ambient temperatures.
- DNA and RNA can be isolated directly without precipitation or reagent removal (compatible with most DNA and RNA purification kits).
- Collecting samples at remote locations where immediate Nucleic acid isolation is not possible
- Shipping samples on wet ice or even at room temperature if shipped overnight

Properties

Appearance/ Color/ Clarity	: Colorless clear solution and free of particles
DNase & RNase	: None Detected
Suitability Test	: This reagent has been tested and is suitable for stabilization of Nucleic acids in Microbiome samples.

Storage conditions

Store MicrobiomeLiv™ solution at room temperature (15-25°C) and is stable for 12 months from the date of manufacture. Storage of MicrobiomeLiv™ Reagent at lower temperatures may cause precipitation prior to use, preheat the reagent to 37°C with agitation, till the precipitate dissolves.

Specimen Handling and Collection

Collect samples in a sterile container. Store the samples at 2-8°C for short term storage or -20°C for long term storage. Ensure that the samples are at room temperature (15-25°C) before beginning the protocol. After use, contaminated material must be sterilized by autoclaving before discarding.

Types of Specimen

Microbiome samples: Animal cells, tissues, stool

Procedure

1. Determine the appropriate amount of sample to be stabilized for DNA/ RNA extraction.
2. To a collection tube (Nuclease free), add appropriate volume of MicrobiomeLiv™ . For e.g. add 100 µl of MicrobiomeLiv™ for 10 mg of sample.

Table 1. Sample weights and amount of MicrobiomeLiv™ to be added

Volume of MicrobiomeLiv™	300 µl	600 µl
Pelleted Cells	10 ⁶	10 ⁷
Tissues	30mg	60mg
Biological liquids	100 µl	200 µl

3. Place the sample in a tube containing solution.
4. Ensure that the sample is completely submerged in the reagent.

Store the samples submerged in MicrobiomeLiv™ for up to 3 days at 37°C, 1 month at 4°C-25°C or at -20°C (up to 20 freeze-thaw cycles).

For long term Storage at -20°C: Incubate the sample overnight in the MicrobiomeLiv™ reagent at 2–8°C. Then transfer the sample, in the reagent, to –20°C for storage.

For long term Storage at -80°C: Incubate the sample overnight in the MicrobiomeLiv™ reagent at 2–8°C.

Then transfer the sample, in the reagent, to –80°C for storage.

NOTE: Samples stored in MicrobiomeLiv™ Reagent at –20°C may not freeze. The lower temperature may cause the formation of crystals or a precipitate in the reagent. This will not affect subsequent Nucleic acid purification. There is no need to dissolve the precipitate.

MicrobiomeLiv™ stabilized samples stored at –20°C or –80°C can be thawed at room temperature and frozen again for up to 20 freeze-thaw cycles without affecting the quality or yield of Nucleic acids.

For Transportation: While transporting samples in reagent, ensure that the tissues always remain submerged in the reagent. Either keep the tubes upright during transport or fill the tubes completely with MicrobiomeLiv™ Reagent.

- After Storage, extract Nucleic acid from the samples using HiMedia's HiPurA® range of DNA and RNA Purification Kits.

NOTE: Make sure to remove samples from MicrobiomeLiv™ Reagent prior to disruption and homogenization in the Nucleic acid purification procedure. If samples were stored at –20°C, remove any crystals that may have formed.

Trouble Shooting Guide

Problem	Solution
<u>DNA/ RNA degraded</u>	
Harvested samples not immediately stabilized	Submerge the sample properly in the appropriate volume of MicrobiomeLiv™ Reagent immediately after harvesting.
Too much of sample for stabilization	Reduce the amount of sample, increase the amount of MicrobiomeLiv™ Reagent
Animal tissue is very thick for stabilization	Cut large samples into slices less than 0.5 cm thickness for stabilization in MicrobiomeLiv™ Reagent.
Tissue/ swab not fully submerged in MicrobiomeLiv™ Reagent	Ensure that the tissue/ swab remains fully submerged in the MicrobiomeLiv™ Reagent. Smaller tissues/ fragments may tend to stick to the lid or the side of the container.
Frozen animal tissue used for stabilization	Use only fresh, unfrozen tissue for stabilization in MicrobiomeLiv™ Reagent.
Storage duration in MicrobiomeLiv™ Reagent exceeded	MicrobiomeLiv™ stabilized samples can be stored for up to 3 days at 37°C, up to 1 month at 4–25°C, or can be stored at –20°C or –80°C for up to 20 freeze-thaw cycles. We recommend lower temperatures whenever possible.

Warning and Precautions

Not for Medicinal Use. Read the procedure carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Limitations

- The yield of Nucleic acids depends upon the type and the volume of starting material used.

Performance and Evaluation

Performance of the solution is expected when the solution is used as per the protocol mentioned in the product insert within the expiry period when stored at recommended temperature.

Safety Information

The MicrobiomeLiv™ contains irritants. Take appropriate laboratory safety measures and wear gloves when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.









Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed off in accordance with current laboratory techniques.

Technical Assistance

At HiMedia, we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail to mb@himedialabs.com.

Symbols

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

Identification No.: PIML247

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Disclaimer :

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