

microLYSIS Plus RNA

P. Code	Number of Rxn	Contents	Description	Lot Number	Expiry
2MLR-50	50 X 20 µL	1 x 1 mL—microLYSIS Plus RNA	Direct to PCR, RNA Release Buffer		
2MLR-100	100 X 20 µL	2 x 1 mL—microLYSIS Plus RNA	Direct to PCR, RNA Release Buffer		
2MLR-250	250 X 20 µL	5 x 1 mL—microLYSIS Plus RNA	Direct to PCR, RNA Release Buffer		
2MLR-1000	1000 X 20 µL	20 x 1 mL—microLYSIS Plus RNA	Direct to PCR, RNA Release Buffer		
2MLR-2500	2500 X 20 µL	1 x 50 mL—microLYSIS Plus RNA	Direct to PCR, RNA Release Buffer		

Applications

- Releasing RNA from cells in a PCR ready format.
- Lysis of difficult-to-lyse organisms.
- Rapid sequencing sample preparation.

Key Features

- Rapid release of RNA from the toughest of cells.
- Sustainable environmental friendly alternative to extraction.
- ‘Free From’ the use of columns, magnetic beads, and solvents.

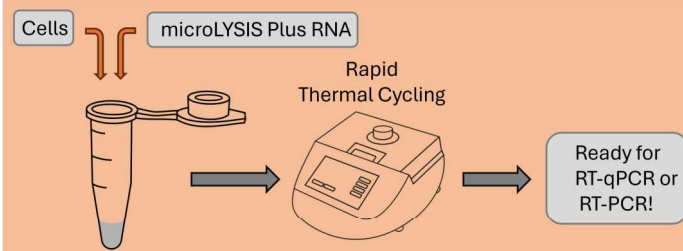
Product Description

Part of the ‘Free From’ Microzone range, microLYSIS Plus RNA requires as little as a 12 minute thermal cycle to efficiently release cellular RNA from a range of cells, ready for downstream processing. The whole process takes place in a single tube and does not involve the use of solvents or other harmful chemicals usually required in traditional RNA extraction methods.

Replacing conventional extraction methods with microLYSIS Plus RNA, significantly speeds up the time taken from cell to RNA amplification, without compromising results. Additionally, there is no loss of RNA during the process using microLYSIS Plus RNA, unlike traditional RNA extraction methods which are based on columns, magnetic beads, and solvents.

microLYSIS Plus RNA’s innovative buffer formulation stabilises RNA and enhances PCR. It’s use is proven with a vast array of cell and tissue types: large range of bacteria species, viruses, fungi, animal tissues (such as mouse tail and ear punches) and even whole multicellular organisms (such as *Drosophila* flies).

Workflow



Thermal cycling – Lysis

Overlay with mineral oil if necessary. Place in a Thermal Cycler and set profile as follows:

After lysis, the lysate can be added directly to PCR as template. It can make up to 40% of most PCR mixtures but also can be diluted using TE buffer or water. Alternatively, it can be stored at -20°C for later use.

Step	Profile
1	75°C for 10 mins
2	95°C for 2 mins

Protocol

Follow guidelines for the addition of cells to microLYSIS Plus RNA for your cell type.

For bacteria

For colonies – pick a colonies and add to 20 µL of microLYSIS Plus RNA, ensure the colonies are removed from the loop before mixing well.

For broths – add 2 µL of broth (up to OD of 1) to 20 µL microLYSIS Plus RNA and mix well.

For tissue samples

Cut 10 mg of tissue and add to 20 µL of microLYSIS Plus RNA.

For *Drosophila*

Add one fly to 20 µL of microLYSIS Plus RNA, squash and mix well.

Samples from microLYSIS Plus RNA can be used in end-point RT-PCR, RT-qPCR and High Fidelity RT-PCR reactions.

For research use only.

Product Handling

Storage

To ensure the quality of the product until the expiry date keep at the recommended storage temperature and limit exposure to light.

Contamination Control

To prevent erroneous results ensure work environment is free of contamination by cleaning your workstation and equipment with a RNA decontaminant daily, wear gloves, use sterile tubes and filter pipette tips.

Simple | Effective | Efficient