

Product code: 2MLP:

MicroLYSIS PLUS

P. Code	Number of Rxn	Component	Description	Lot Number	Expiry
2MLP-100	100 @20μl	MicroLYSIS PLUS	Direct to PCR, DNA Release		
2MLP-250	250 @20μl	MicroLYSIS PLUS	Direct to PCR, DNA Release		
2MLP-1000	1000 @20μl	MicroLYSIS PLUS	Direct to PCR, DNA Release		

Applications

- Releasing gDNA from cells in a PCR ready format.
- Can be used with numerous cells and tissues.

Product Description

MicroLYSIS Plus was developed to provide rapid release of DNA from cellular structures that can then be used directly in to PCR without the need for extraction. This allows for users to speed up their time from cell to results. Thus getting more results in less time and with less hassle. Unlike extraction methods ,the user doesn't loose any of the DNA during the process.

Microzone's unique buffers stabilize DNA and enhance PCR.

MicroLYSIS PLUS has been successfully used with a vast array of cells and tissue. These include a large range of bacterial cells, viruses, fungi and tissues such as mouse tail and ear punches.

DNA can be stored for shorter periods at 4°C and for long term storage at -20°C. If required, samples can be subsequently cleaned up using magnetic beads and or filter column methods.

The product does not require the use of Ethanol, IsoPropanol or other solvents.

Key Features

- Rapid release of DNA from cells and then go straight to PCR.
- Simple method without need for filter columns or magnetic beads.
- Less environmental impact from plastics.
- Free from the use of alcohols and other solvents.
- Easy method allows MicroLYSIS Plus to be used outside of a laboratory and in the field to perform DNA testing.

Tips:

Post release, the supernatant can be diluted TE buffer or Molecular Grade Water.

When optimizing a PCR reaction then less is often better than more. However, MicroLYSIS PLUS can make up to 40% of your PCR reaction without issues.

Associated Products:

Just Water—Molecular biology Grade in convenient 1ml tubes

MegaMix Emerald qPCR Mastermix

MicroLYSIS RNA— For viral RNA direct to PCR

Protocol

Mix cells with microLYSIS-Plus. Overlay with mineral oil if necessary. Place in a Thermal Cycler and set profile as follows:

Lysis Profile 1 – For less tough cells

- Step 1: 75°C for 5 mins
- Step 2: 95°C for 2 mins
- Step 3: 20°C hold

Lysis Profile 2 – For very tough cells

- Step 1: 65°C for 15 mins
- Step 2: 96°C for 2 mins
- Step 3: 65°C for 4 mins
- Step 4: 96°C for 1 mins
- Step 5: 65°C for 1 mins

- Step 6: 96°C for 30 secs
- Step 7: 4°C hold

After lysis, all of the microLYSIS-Plus/DNA mixture can be used directly in PCR. It can make up to 40% of most PCR mixtures. Alternatively, it can be stored at -20°C for future use

Samples from MicroLYSIS PLUS can be used in dye and probe based qPCR reactions as well as traditional end point PCR.

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 daily with a DNA decontaminant daily, wear gloves, use sterile tubes and filter pipet tips.

Simple | Effective | Efficient