Microzone Product Datasheet

Product code: 2ML:

MicroLYSIS

P. Code	Number of Rxn	Component	Description	Lot Number	Expiry
2ML-100	100 @20µl	MicroLYSIS 2 x 1ml	Direct to PCR, DNA Release		
2ML-250	250 @20µl	MicroLYSIS 5 x 1ml	Direct to PCR, DNA Release		
2ML-1000	1000 @20µl	MicroLYSIS 20 x1ml	Direct to PCR, DNA Release		

Applications

- Releasing gDNA from cells in a PCR ready format.
- Can be used with numerous cell types including Plasmid and bacteria.

Product Description

MicroLYSIS is Microzone's original direct to PCR DNA release buffer. It 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 buffer includes our wide knowledge of PCR buffers.

MicroLYSIS has been successfully used with bacterial, plasmids, epithelial cells and more.

DNA can be stored at -20°C for future use. If required, samples can be subsequently cleaned up using magnetic beads and or filter column methods.

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 to be used outside of a laboratory and in the field to perform DNA testing.

Tips:

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

When optimizing a PCR reaction then less is often better than more.

Associated Products:

Just Water—Molecular biology Grade in convenient 1ml tubes

MegaMix Platinum—Probe based qPCR Mastermix

MicroLYSIS RNA— For viral RNA direct to PCR

Protocol

Resuspend cell pellet in 20µl microLYSIS or mix 1µl cells with 19µl MicroLYSIS. Overlay with mineral oil if necessary.

Place in a thermalcycler.

Step 1: 65°C for 5 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: 20°C hold

After lysis, all of the microLYSIS-Plus/DNA mixture can be used directly in PCR. Alternatively, the mixture can be stored at -20°C for future use. For the amplifiaction of bacterial/plasmid DNA 1 to 3µl of the microLYSIS/ DNA mixture is usually sufficient.

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

Version 2.01

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