Microzone Product Datasheet

Product code: 2GTK:

Genotyping—Rapid DNA Extract/Lysis PCR kit

P. Code	Number of Rxn	Component	Description	Lot Number	Expiry
2GTK-100	100 @20µl	Extraction/Lysis Buffer PCR Mastermix	Rapid DNA extraction / Lysis and PCR		
2GTK-250	250 @20µl	Extraction/Lysis Buffer PCR Mastermix	Rapid DNA extraction / Lysis and PCR		
2GTK-1000	1000 @20µl	Extraction/Lysis Buffer PCR Mastermix	Rapid DNA extraction / Lysis and PCR		

Applications

- Genotyping of mouse tail clip or ear punch.
- Bacterial ID
- Sequencing
- Knockout Analysis

Product Description

A rapid extraction / lysis buffer and our superior Hotstart PCR mastermix that incorporates a blue loading dye. Simple methods ensure a hassle free amplification across a wide variety of templates. Our kits compare exceptionally well to full extraction and purification methods. One reason being that we our methods ensure that no DNA/RNA is lost during the purification method. Secondly, as a company we are highly experienced in PCR and know how to make our buffers to work well in PCR conditions.

Users save time, increase productivity, get answers quicker and easier.

Our products are designed to be simple, efficient and effective.

Key Features

- Rapid extraction / release of DNA from cells
- Go direct in 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 and can 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.

Associated Products:

Just Water—Molecular biology Grade in convenient 1ml tubes

MegaMix Emerald qPCR Mastermix

MLR—For rapid extraction / lysis of RNA for COVID testing

Protocol

Take sample tissue and cover with extraction/lysis buffer. Then incubate as follows:

Step 1: 75°C for 5 mins
Step 2: 95°C for 10 mins
Step 3: 20°C hold

Once extraction/lysis has been complete, then the supernatant can be used directly in PCR reactions. A typical PCR reaction would be as follows:

End Point PCR Amplification @20ul reaction size

Step 1 : Add 10µl of Microzone Mastermix
Step 2: Add 1µl of forward primer
Step 3: Add 1µl of reverse primer
Step 4: Add 1-2µl of supernatant
Step5: Make up to 20µl with Just Water or similar MB Grade water.

Place in thermocycler and create cycling conditions for your primers and thermocycler.

Post PCR load a few ul of you Post PCR reaction mixture in to a gel well and run the electrophoreisis.

Microzone offer mixes for Endpoint, qPCR and HRM and more that work well with our extraction/lysis buffers.

After lysis, all of the DNA extract lysis 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
DNA can be used in dye and probe based qPCR reactions as well as traditional end point PCR.

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

Simple | Effective | Efficient

Version 2.01

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