MegaMix

P. Code	Reactions (20µl)	Volume	Component	Description	Lot Number	Expiry
2MMBD-1	50	0.5 ml	Blue MegaMix Double	2X Concentrated, Standard Taq, 400µM dNTPs, 5 mM $MgCl_2$ and blue loading dye in optimised buffer.		

Applications

- Routine PCR up to 6kb.
- Genotyping.
- TA cloning.
- Colony PCR.
- Amplification of GC and AT rich templates.
- Methylated DNA.

Key Features

- More confidence in amplification and PCR test.
- Easy set up and PCR optimisation.
- Inert blue agarose loading dye allows for easy visualisation.
- Broad range of templates and conditions.
- Extremely stable—can be freeze thawed many times.
- 2X concentrated to allow for increased sample volume.

Product Description

Containing all the components needed to perform PCR swiftly and reliably. The 2X mix contains Taq DNA polymerase, 400 µM dNTP, 5 mM $MgCl_2$ and blue loading dye in Microzone's proprietary enhancing buffer. Blue MegaMix Double is optimised to provide high yields under standard conditions. The blue agarose loading dye incorporated allows easy visualisation and eliminates the need for additional gel loading buffers. The dye does not inhibit restriction enzymes or ligases and does not fluoresce at the wavelengths used by automated DNA sequencers so downstream processes are not impacted.

Protocol

This products is to be used as follows.

Thaw all reagents completely and mix well before use.

Prepare a master mix as described in the table below. This reaction can be scaled according to the quantity of reactions required.

Mix gently, avoiding bubbles, centrifuge is necessary.

Include a no template control and positive control as required.

Components	Volume
MegaMix Double	10µl
Primers	x µl
Template	y µl
Just Water (Molecular grade water)	z µl (up to 20 µl)

Thermocycling

Transfer the reactions to the thermal cycler and set as follows:

Cycles	Temperature	Time
1	95°C	3 min
25-30	95°C	30 sec
	55-65°C	30 to 60 sec
	72°C	45 to 60 sec

Annealing temperature (55-65°C) may require optimisation depending on the specific primers in use.

The run time can be shortened by optimising the steps of the thermocycling profile.

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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