

Catalog Numbers

2X Cellixi-Taq PCR Master Mix 1 ml

Store at -20 °C

Storage and Stability:

2X Cellixi-Taq PCR Master Mix is shipped at -20 °C. For optimal performance, we recommend to store at -20 °C.

Expiry:

When the reagent is stored under the recommended conditions and handled correctly, full activity will be retained until the expiry date on the outer box label.

Notes:

Research Use Only.

Introduction

2X Cellixi-Taq PCR Master Mix is a ready-to-use 2X premix solution containing Taq DNA Polymerase, dNTPs, and already optimized buffer system. Cellixi-Taq DNA polymerase synthesizes DNA under appropriate conditions from single-stranded templates in the presence of the gene-specific primers and dNTPs. It's a recombinant product extracted from *E. coli* with *Thermus aquaticus* DNA polymerase gene expressed.

Taq DNA Polymerase possesses the capability of 5'→3' DNA polymerase and weak 5'→3' exonuclease, it can be used in TA cloning. In PCR reaction, elongation rate of Taq DNA Polymerase is about 1-2 kb/min depending on the complexity of the gene. For most templates, using 1kb/min.

Package Information

Components	CE 888-01
2 × Cellixi-Taq Master Mix	1 ml

Application

- Routine and demanding PCR amplification.
- Suitable for amplification of low target copy number
- TA cloning

Storage

Stored at -20°C.

Protocol

Reaction system:

Component	Volume	Final concentration
2X Cellixi-Taq PCR Mix	25 µl	1×
Forward primer	Variable	0.2–1 µM
Reverse primer	Variable	0.2–1 µM
Template DNA	Variable	10 pg.–1 µg.
	<i>Use 0.01–1 ng for plasmid or phage DNA and 0.05–1 µg for genomic DNA</i>	
Nuclease free water	Variable	
Total volume	50 µl	

Cycling Program:

Step	Temperature	Time	Cycles
Initial activation	95°C	5 min	1
Denaturation	95°C	30 s	25–35
Annealing*	(55–68°C)	15–30 s	25–35
Extension	72°C	30–60 s	25–35
Final extension	72°C	15 min	1
Storage in the cyclor	4°C	Indefinitely	1



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