

KT210831

2× Taq PCR Mix

Cat. no. 4992229/4992230/4992255/4992256

Storage

Store at -30~-15°C for up to two years and avoid repeated freezing and thawing. For regular use, please store at 2-8°C for up to three months.

Contents

Contents	4992229	4992230	4992255	4992256
2× Taq PCR Mix	1 ml	5 × 1 ml	1 ml	5 × 1 ml
ddH ₂ O	1 ml	5 ml	1 ml	5 ml
Loading dye in PCR Mix	Yes	Yes	No	No

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Introduction

Taq PCR Mix is a 2× concentrated, optimized mixture composed of Taq DNA polymerase, dNTPs, MgCl₂, reaction buffer, PCR reaction enhancer, optimizer and stabilizer. The advantages of 2× *Taq* PCR MasterMix include high convenience, sensitivity, specificity and stability. It minimizes man-made errors during PCR operating process. Taq PCR Mix is suitable for routine PCR reaction, amplification of complex templates such as GC rich templates (>60%) and templates with secondary structure, and large-scale gene detection.

Mix Components (2×)

0.1 U/µl Taq Polymerase 500 µM dNTP each 20 mM Tris-HCl (pH8.3) 100 mM KCl 3 mM MgCl₂ Stabilizer and enhancer

Description

 $2 \times Taq$ PCR Mix is designed for quick and easy preparation of reaction mixture, which minimizes the contamination during PCR operating process.

For PCR reaction set-up, users only need to pipet an aliquot part of $2 \times Taq$ PCR Mix and dilute the Mix to $1 \times$ by adding templates, primers and water up to the reaction volume. There are two types of this product: Mix with loading dye (blue) and Mix without loading dye (colorless); PCR products produced by using Mix with loading dye can be loaded directly without extra loading buffer.

Application

- Gene detection: 2 × Taq PCR Mix is especially suitable for large-scale gene detection, semi-quantitative PCR, detection of tiny amount of DNA, etc.
- Amplification of DNA and complex templates such as GC rich templates (>60%) and templates with complex secondary structure. The enzyme of Taq PCR Mix generates PCR products with A-tailing, suitable for TA cloning.

Example

Note: The following example only for reference, user must set up optimal reaction system according to different reaction conditions such as different templates or primers etc.

 To 25 μl PCR reaction system: 1 kb fragment of human genomic DNA was amplified by using 2× Taq PCR Mix (If use different reaction system, please proportionally increase or decrease the amount of reaction components referring to this system).

Template	< 1 µg
Primer 1(10 μM)	1 µl
Primer 2(10 μM)	1 µl
2× Taq PCR Mix	12.5 μl
ddH ₂ O	up to 25 μl

2. PCR cycle set-up

	94°C	3 min					
	94°C	30 sec)				
	55°C	30 sec	}	30 cycles			
	72°C	1 min	J				
	72°C	5 min					
3.	8. Result detection: Load 5 μ l PCR products to agrose						
	gel for PCR detection.						