Tinzyme Co., Limited

Email: sales@tinzyme.com Website: www.tinzyme.com
Tel: +86-755-86134126 WhatsApp/Facebook/Twitter: +86-189-22896756

2×PCR Master Mix

Product Number: PCM01

Shipping and Storage

-20℃.

Components

Component	PCM01
2×PCR Master Mix	1ml
ddH_2O	1ml

Description

This product contains Taq DNA polymerase, dNTPs, $MgCl_2$, and reaction buffer at a concentration of 2×. It has the advantages of fast, simple, high sensitivity, strong specificity, and good stability, which can minimize human error to the greatest extent.

This product is convenient and fast to use, and can avoid contamination during PCR operation. When using, only take an appropriate amount of 2×PCR Master Mix, add templates and primers, and add ddH_2O to make up the volume, so that the MasterMix solution concentration is 1× and the reaction can proceed. Please ensure sufficient dissolution and mixing before use.

This product comes in two types: with and without dyes. There are two types of dyes in products containing dyes (green dye and yellow dye), which are separated during electrophoresis to monitor migration progress. The mobility of cyan dye in 1% agarose gel is the same as that of 3-5kb DNA fragment. The yellow dye migrated faster than the primer in 1% agarose gel (<50bp).

Application

1. Genetic testing: The error between different batches of this product is very small, making it particularly suitable for large-scale genetic testing, semi quantitative PCR experiments, and trace DNA detection.
2. This product is suitable for PCR amplification, DNA labeling, primer extension, and sequencing of DNA fragments. PCR product with band A can be directly cloned with TA after purification.

Quality control

No exogenous nuclease activity detected; PCR method for detecting residual DNA without host; Effectively amplifying single copy genes in the human genome; Store at room temperature for one week without significant changes in activity.

Protocol

Note:The following examples are for reference only. The actual reaction conditions vary depending on the structure of templates, primers, etc., and the optimal reaction conditions need to be set according to the actual situation.

1. Using the 2×PCR Master Mix product and human genome DNA as a template, amplify a 1 kb fragment with a reaction system of 25μl (if the reaction system is different, the dosage can be increased or decreased according to this ratio).

Component	Volume
Template	10pg-1μg
Forword Primer (10μM)	0.5μl
Reverse Primer (10μM)	0.5μl
2×PCR Master Mix	12.5μl
ddH_2O	Add to 25μl

2. PCR reaction

Temperature	Time	Cycles
94℃	2-5 min	

94℃	30 sec	
55℃	30 sec	30-35 cycles
72℃	1 kb/min	
72℃	5-10 min	

3. Result detection: Take after the reaction is completed