Tinzyme Co., Limited

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2×PCR Master Mix, with Green dye

Product Number: PCM01G

Shipping and Storage

-20℃.

Components

Component	PCM01G Containing dyes
2×PCR Master Mix	1mL
ddH_2O	1mL

Description

This product contains Taq DNA polymerase dNTPs, $MgCl_2$, Reaction buffer with a concentration of 2 ×. It has the advantages of speed, simplicity, high sensitivity, strong specificity, and good stability, which can minimize human errors to the greatest extent possible.

This product is easy and fast to use, and can avoid contamination during PCR operation. To use, simply take an appropriate amount of 2 × Taq PCR MasterMix solution, add the template and primer, and add ddH_2O to make up the volume, so that the MasterMix solution concentration is 1 × and the reaction can be carried out. Please ensure sufficient dissolution and mixing before use.

This product comes in two types: dye containing and dye free. There are two types of dyes (blue dye and yellow dye) in dye containing products, which are separated during electrophoresis to monitor migration progress. The mobility of blue dye in 1% agarose gel is the same as that of 3-5 kb DNA fragment. Yellow dye migrates faster than 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 of DNA fragments, DNA labeling, primer extension, sequence determination, etc. The PCR product with band A can be directly cloned using TA after purification.

Quality control

No exogenous nuclease activity detected; PCR method for detecting residual DNA without host; Can effectively amplify single copy genes in the human genome; After being stored at room temperature for one week, there was no significant change in activity.

Protocol

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

3. Result detection: 5μL-10μL reaction product was taken after reaction, and agarose gel electrophoresis was used for detection.