



**Tinzyme Co., Limited**

Email: [sales@tinzyme.com](mailto:sales@tinzyme.com)

Website: [www.tinzyme.com](http://www.tinzyme.com)

Tel: +86-755-86134126

WhatsApp/Facebook/Twitter: +86-189-22896756

## 2×PCR Super MasterMix

Product Number: PCM10

### Shipping and Storage

Store at -20°C.

### Component

Component	PCM10
2×PCR Super MasterMix	1mL
ddH <sub>2</sub> O	1mL

### Description

This product contains Tag Plus DNA polymerase dNTPs, MgCl<sub>2</sub>, Reaction buffer with a concentration of 2×. It has the advantages of being fast, simple, highly sensitive, specific, and stable, which can minimize human error to the greatest extent possible.

This product is easy to use and can avoid contamination during PCR operations. To use, simply take an appropriate amount of 2×PCR Super MasterMix solution, add templates and primers, and add deionized water to make up the volume, so that the MasterMix solution concentration is 1x for reaction. 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. The yellow dye migrated faster (<50 bp) than the primer in 1% agarose gel.

### Application

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.

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 detects no host residual DNA; Can effectively amplify single copy genes in human genes; After being stored at room temperature for one week, there was no significant change 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.

- Using 2×PCR Super MasterMix product, amplify a 1kb fragment using human genomic DNA as a template, 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
Forward Primer (10μM)	0.5μL
Reverse Primer (10μM)	0.5μL
2×PCR Super MasterMix	12.5μL
ddH <sub>2</sub> O	Supplement to 25μL

- Setting of PCR reaction cycle:

**For Research Use Only**




## **Tinzyme Co., Limited**

Email: [sales@tinzyme.com](mailto:sales@tinzyme.com)

Website: [www.tinzyme.com](http://www.tinzyme.com)

Tel: +86-755-86134126

WhatsApp/Facebook/Twitter: +86-189-22896756

94°C:	2-5 min		30-35 cycles
94°C:	30 sec		
55°C:	30 sec		
72°C:	1-2 kb/min		
72°C:	5-10 min		

### **3. Result detection:**

After reaction, 5  $\mu$ L-10mL reaction product was taken and detected by agarose gel electrophoresis.