

# Fast-Run™ 5X Taq Master Mix

Date: 2025.05

Version 3.2

Cat No: PT-TMM528      Size: 200 Reactions

Cat No: SA-TMM528      Size: 20 Reactions

Store at 4°C for at least 1 year

## Product Description:

The Fast-Run 5X *Taq* Master Mix is a ready-to-use PCR mixture for all PCR applications. It offers a convenient, reproducible PCR mix that minimizes the multiple handling steps during a PCR setup. It is supplied as 2 tubes package stored at 4°C, containing a 5X concentrated ready-to-use mixture of *Taq* DNA polymerase, reaction buffer, MgCl<sub>2</sub>, dNTPs, and enzyme stabilizer. It can amplify up to 5kb specific DNA fragment from lambda DNA. Users only have to add primers, template and water to a final volume of 50uL to have a complete PCR reaction mix.

## Components:

- PT-TMM528 : 2mL (1mL/tube, 2 tubes)
- SA-TMM528 : 200uL

## Recommended PCR Reaction Mix:

| Component                 | Volume                                                                              | Final Concentration |
|---------------------------|-------------------------------------------------------------------------------------|---------------------|
| Forward primer (10uM)     | 1uL                                                                                 | 0.2uM               |
| Reverse primer (10uM)     | 1uL                                                                                 | 0.2uM               |
| Template DNA              | Genomic DNA : 50ng (50-200ng)<br>Plasmid DNA : 1ng (1-50ng)<br>Crude Sample : ≤ 5μL |                     |
| Fast-Run 5X Taq Mater Mix | 10uL                                                                                | 1X                  |
| Sterile water             | Up to 50uL                                                                          |                     |

## Recommended Themocycling Conditions:

| Step                 | Temp    | Time       | Cycles |
|----------------------|---------|------------|--------|
| Initial denaturation | 95°C    | 5 min      | 1      |
| Denaturation         | 95°C    | 30 sec     | 30-35  |
| Annealing            | 50-68°C | 30 sec     |        |
| Extension            | 72°C    | 1 min / kb |        |
| Final extension      | 72°C    | 5-10 min   | 1      |
| Hold                 | 4°C     |            |        |

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