

Taq 2X PCR MasterMix

Cat. No. G888

Store at -20°C.

Product Description

Taq 2X PCR MasterMix is a ready-to-use MasterMix containing Taq DNA Polymerase in a uniquely-formulated buffer with gel loading dye. Tag has 5'-3' polymerase and 5'-3' exonuclease activities, lacks 3'-5' exonuclease activity, and produces 3'-dA-tailed amplicons. PCR products made with Tag can be used with TA cloning vectors.

| Product Component | Quantity | Cat. No. |
|-----------------------------------|-------------------|----------|
| Taq 2X PCR MasterMix ¹ | 400 rxn (10.0 ml) | G888 |

¹Buffer contains 1.5 mM Mg²⁺.

Protocol

1. Mix individual components before use and assemble reaction on ice.

| Component | Volume |
|--------------------------------|-------------------------------|
| Taq 2X PCR MasterMix | 25 μΙ |
| Forward Primer (10 µM) | 1-2 µl |
| Reverse Primer (10 μM) | 1-2 µl |
| Template DNA | Variable (200 ng genomic DNA) |
| Nuclease-free H ₂ O | Up to 50 µl |

2. Gently mix the reaction components and briefly centrifuge. Run thermocycling conditions for standard PCR:

| Step | Temperature | Duration |
|-----------------------------------|---------------------------|------------------------------|
| Initial Denaturation ² | 94°C | 3 min |
| 25 – 35 Cycles | 94°C 50-65°C ³ 72°C | 30 sec 30 sec 1 min/kb |
| Final Extension | 72°C | 5 min |

² For most applications, an initial 3 minute denaturation step at 94°C is sufficient. Increase to 5 minutes for high-GC or

General Notes

- For difficult or high-GC templates, use a standard touchdown program.
- If working with low template and/or low sample amount, reduce total reaction volume to 25 µl and lower other component volumes accordingly.

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³ Adjust annealing temperature based on the primer melting temperature.