

MegaFi™ Fidelity 2X PCR MasterMix

Cat. No. G897.5, G897

Store at -20°C.

Product Description

MegaFi[™] Fidelity 2X PCR MasterMix sets new standards for sensitive, robust, and high-fidelity PCR performance in a uniquely-formulated buffer with gel loading dye. This strategically-engineered polymerase has exceptional sensitivity and can amplify even the most difficult templates (compared to the leading competitors). In addition, MegaFi[™] has high fidelity and ultra-low error rates (over 1,000X less than Taq polymerase, representing the lowest error rate on the market, see website for more information), making it incredibly useful for a variety of PCR applications demanding high fidelity, including Next Generation Sequencing, molecular cloning, or diagnostics.

Product Component	Quantity	Part No.
MegaFi TM Fidelity 2X PCR MasterMix ¹	500 rxn (4 x 1.25 ml)	G897.5 ²
MegaFi TM Fidelity 2X PCR MasterMix ¹	1000 rxn (8 x 1.25 ml)	G897

Buffer contains 1.5 mM Mg²⁺.

Protocol

 Thoroughly thaw and mix individual components before use, and assemble reaction on ice.

Component	Volume	
MegaFi™ Fidelity 2X PCR MM	10.0 µl	
Forward Primer (10 µM)	1 μΙ	
Reverse Primer (10 µM)	1 μΙ	
Template DNA	Variable (100 ng genomic DNA)	
Nuclease-free H ₂ O	υp to 20 μl	

2. Gently mix the reaction components and briefly centrifuge, then transfer tube to a thermalcycler. Use thermocycling conditions for standard PCR (1 kb template):

Step	Temperature	Time
Initial Denaturation	98°C	30 sec
25 - 35 Cycles	98°C 50-72°C 72°C	5-10 sec 10-30 sec 20-30 sec/kb ²
Final Extension	72°C	2 min

² 20-30 seconds/kb, increase as necessary.

- 3. After PCR, maintain the reaction at 4°C or store at -20°C until use.
- 4. Analyze the amplification products by agarose gel electrophoresis.
- 5. Visualize by ethidium bromide or SafeView™ (Cat No. **G108**) staining.

General Notes

- MegaFiTM Fidelity DNA Polymerase is strategically-engineered for fast versatile highfidelity PCR.
- Suitable for long range PCR up to 18 kb from less difficult targets or up to 15 kb from aenomic DNA.
- Start with high quality, purified DNA templates to achieve even greater PCR success.

* G897.5 제품은 한국에서만 공급합니다.

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