



DATA SHEET

EpisoZYme 2x HF-PCR Master Mix

Cat. No.	Pack Size	Conc.
EZ-HF01S	1000 µl	2x
EZ-HF01M	2000 µl	2x
EZ-HF01L	5000 µl	2x

EpisoZYme 2x HF-PCR Master Mix is an optimized ready-to-use master mix that contains all PCR reaction components: dNTPs, PCR buffer, Mg²⁺ and High Fidelity DNA polymerase. Only the primers and template need to be added. The convenient 2x master mix formulation saves time and eliminates the risk of contamination due to a reduced number of pipetting steps required.

Concentration

Buffer PCR 2x; 0.4 mM each dNTP (dATP, dCTP, dGTP and dTTP); 4 mM MgSO₄; Pfu DNA polymerase 0.05 U/µL and Glycerol 4%.

Recommended PCR Reaction Mix

2x Master Mix	12.5 µl	25 µl	1x
10 µM For. Primer	1.25 µl	2.5 µl	0.5 µM (0.05–1 µM)
10 µM Rev. Primer	1.25 µl	2.5 µl	0.5 µM (0.05–1 µM)
Template DNA	variable	variable	<100 ng
Nuclease-Free Water	to 25 µl	to 50 µl	

Quality Certifications

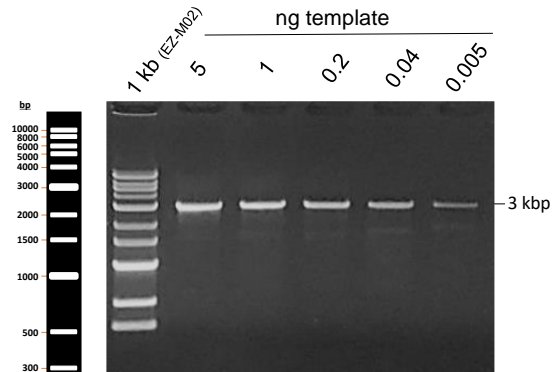
Functionally tested in PCR.
Undetected bacterial DNA (by PCR).

Thermocycling Conditions for a Routine PCR

Step	Temp.	Time
Initial Denaturation	95°C	1 m
25-30 Cycles	95°C 45-60 °C 74 °C	15 s 10-30 s 30 s/kb
Final Extension	74 °C	5 m
Hold	r. t.	

Quality Control Assays

PCR; Lambda DNA, 30 cycles of PCR amplification of 0.005 - 5 ng template with 2x HF-PCR master mix reaction results in the expected 3 kbp products.



Safety warnings and precautions

This product is designed for research purposes and *in vitro* use only. According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses.



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