

AMPQX® HotStart E-Taq DNA Polymerase, Glycerol-free (5 U/μL)

Cat. no. LM203005

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Product Information

Catalog No.	LM203005
Size	500 U / 1000 U / 10 KU / 50 KU / 100 KU
Storage conditions	This product should be stored at 2~ 8°C for 1 years.

2.Product description

AMPQX® HotStart E-Taq DNA Polymerase, Glycerol-free is a heat-start DNA polymerase with double sealing by using double antibodies independently developed by the company. This product closes not only the Taq DNA, the polymerase 5' - 3' polymerase activity, but also the 5' - 3' exonuclease activity. The antibody was completely inclosed by heating 30 sec at the pre-denaturation temperature, releasing DNA polymerase activity and exonuclease activity. The double sealing feature can not only effectively prevent the nonspecific amplification caused by mismatch or primer dimer, but also effectively inhibit the decrease of fluorescence signal generated by the probe degradation, and the double guarantee makes the in vitro detection reagent used in transport or at room temperature The process is more stable. This product does not contain glycerol and is specially configured with lyophilized reagents.

3.Instructions

3.1.Recommended PCR reaction systems.

Components	Volume (μL)	Final concentration
2×Buffera	25	1x
Primer/Probe mixb	X	0.1 μmol/L-0.5 μmol/L
HotStart E-Taq DNA Polymerase, Glycerol-free (5 U/μL)	1.2	0.12 U/μL
ddH2O	Up to 50	-
Template	X	0.1-100 ng

3.2.Reaction program

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	5 min	1
Denaturation	95°C	15 sec	45
Annealing	60°C	30 sec	
Extension	60°C	30 sec	

[Note]:

- The amplification reaction temperature was adjusted according to the designed primer T_m value.
- Fluorescent signal acquisition: the different qPCR instruments required for the fluorescence signal acquisition time is different, please set it according to the minimum time limit.

4.Notes

- For your safety and health, please wear a lab coat and disposable gloves during operation.
- This product is for research use only!