Ver. EN20230605

Hieff UNICON™ HotStart E-Taq DNA Polymerase, Glycerol-free (5 U/μL)

Product description

Hieff UNICON™ HotStart E-Taq DNA Polymerase, Glycerol-free is a hot start DNA polymerase with double blocking by double antibodies independently developed by the company. This product not only blocks the 5' → 3' polymerase activity of Taq DNA polymerase, but also blocks the 5'→3' exonuclease activity. Heating for 30 seconds at the pre denaturation temperature can completely inactivate the antibody and release DNA polymerase activity and exonuclease activity. The double blocking characteristic can not only effectively prevent the nonspecific amplification caused by mismatch or primer dimer, but also effectively inhibit the decline of fluorescence signal caused by probe degradation, so as to make the in vitro detection reagent more stable during transportation or use at room temperature. This product contains no Glycerol and is specially designed for the preparation of lyophilized reagents.

Specifications

Cat.No.	14316ES76 / 14316ES80 / 14316ES92 / 14316ES97 / 14316ES98
Size	500 U / 1000 U / 10 KU / 50 KU / 100 KU

Components

Name	14316ES76	14316ES80	14316ES92	14316ES97	14316ES98
Hieff UNICON™ HotStart E-Taq DNA Polymerase, Glycerol-free (5 U/μL)	100 μL	200 μL	2×1 mL	10 mL	20 mL

Storage

This product should be stored at 2~8℃ for 1 years.

Instructions

1.Reaction Setup

Components	Volume (μL)	Final Concentration
2×Buffer	25	1×
Primer/Probe mix	X	0.1 μmol/L-0.5 μmol/L
Hieff UNICON™ HotStart E-Taq DNA Polymerase, Glycerol-free (5 U/μL)	1.2	0.12 U/μL
DNA template	X	0.1-100 ng
ddH_2O	up to 50	-

*According to the specific experimental application, the corresponding reaction Buffer should be prepared by oneself. The amount of DNA and primer concentration in the above table are recommended concentrations, and the optimal concentration can be adjusted according to the specific experimental situation.

2. Thermal cycling protocol (2-Step cycling protocol)

Stage	Temperature	Time	Cycles
Pre-denaturation	95°C	5 min	1
Denaturation	95°C	15 sec	45
Annealing/Extension	60°C	30 sec	

*The reaction temperature is adjusted according to the Tm value of the designed primers. Different qPCR instruments need different fluorescence signal acquisition time, please set according to the shortest time limit.

Notes

1. This product is for scientific research purposes only.
2. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety.