Ver. HB221115

Hieff UNICON™ Hotstart E-Taq DNA Polymerase, 5 U/μL

Product description

Hieff UNICON™ Hotstart E-Taq DNA Polymerase 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.

Components

Components No.	Name	10726ES72 (250 U)	10726ES76 (500 U)	10726ES80 (1000 U)
10726	Hieff UNICON™ Hotstart E-Taq DNA Polymerase, 5 U/μL	50 μL	100 μL	200 μL
Components No.	Name	10726ES92 (10000 U)	10726ES93 (25000 U)	10726ES98 (100,000 U)
10726	Hieff UNICON™ Hotstart E-Taq DNA Polymerase, 5 U/μL	2 mL	5 mL	20 mL

Specifications

Polymerase	Taq DNA Polymerase
Purity	⩾ 95%（SDS-PAGE）
Hot Start	Built-In Hot Start
Reaction Speed	Standard
Exonuclease Activity	5' - 3'

Shipping and Storage

The product is shipped with dry ice and can be stored at -15°C~-25°C for 2 years.

Instructions

1.Reaction Setup

Components	Volume (μL)	Final Concentration
2×Buffer[a]	25	1×
Primer/Probe mix[b]	X	0.1 μmol/L-0.5 μmol/L
Hotstart E-Taq (5 U/μL)	1.2	0.12 U/μL
DNA template[c]	X	0.1-100 ng
ddH_2O	up to 50	-

Notes:

a. According to the specific experimental application, it is needed to prepare the corresponding reaction buffer.

b/c. The amount of DNA and the concentration of probes or primers are recommended concentrations. The optimal concentration can be adjusted according to the specific experimental conditions.

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[a]	30 sec[b]	

Notes:

a. The reaction temperature is adjusted according to the Tm value of the designed primers.

b. Different qPCR instruments need different fluorescence signal acquisition time, please set according to the shortest time limit.

Notes

Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety!