HB220429

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

Product Information

Product name	Cat#	Size
Hieff UNICON™ Hotstart E-Taq DNA Polymerase, 5 U/μL	10726ES72	250 U
	10726ES76	500 U
	10726ES80	1000 U
	10726ES92	10000 U
	10726ES93	25000 U

Product Description

Hieff UNICON™ Hotstart E-Taq DNA Polymerase is a double blocked HotStart DNA polymerase by using the company's self-developed double antibody. This antibody can inhibit the activity of 5' → 3' polymerase activity, and 5' → 3' exonuclease activity. Heating for 30 sec at a pre-denaturing temperature, the antibody is completely inactivated, and the DNA polymerase and exonuclease activity are released. Such double antibody-mediated Hot-Start capability can effectively inhibit the non-specific amplification caused by mismatch or primer dimer, and the decrease of fluorescence signal generated by probe degradation which makes the in vitro detection reagent more stable during transportation or using at room temperature.

Package Information

Component number	Components	Cat# /Size				
		10726ES72 (250 U)	10726ES76 (500 U)	10726ES80 (1000 U)	10726ES92 (1000 U)	10726ES93 (25000 U)
10726	Hotstart E-Taq	50 μL	100 μL	200 μL	2 mL	5 mL

Shipping and Storage

The product is shipped with ice packs plus dry ice and can be stored at -20°C for 2 years.

Reaction System

Components	Volume (μL)	Final concentration
2×Buffer [a]	25	1×
Primer/Probe mix [b]	X	0.1 μM-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	-

[Note]: a) According to the specific experimental application, it is recommended to prepare the corresponding reaction buffer.

b/c) The DNA amount and primer concentration in the table above are the recommended concentrations, and the optimal concentration can be adjusted according to the specific experimental situation.

Amplification Procedure (two-step method)

Cycle step	Temperature	Time	Cycles
Initial denaturation	95°C	5 min	1
Denaturation	95°C	15 sec	45

Annealing / Extension	60℃ [a]	30 sec [b]

[Note]: a) Amplification reaction: the annealing temperature can be adjusted according to the Tm values of designed primers.

b) Fluorescent signal acquisition: the fluorescence signal acquisition time required by different qPCR instruments is different, please set it according to the shortest time limit.