HB220429

Hieff Unicon™ Hotstart Direct Taq DNA Polymerase, 5 U/μL

Product Information

Product name	Cat#	Size
Hieff Unicon™ Hotstart Direct Taq DNA Polymerase, 5 U/μL	10717ES72	250 U
	10717ES76	500 U
	10717ES80	1000 U
	10717ES92	10 KU
	10717ES93	25 KU
	10717ES94	50 KU

Product Description

Hieff Unicon™ Hotstart Direct Taq DNA Polymerase is a "hot start" DNA polymerase that tolerates blood and other repressors. This product is blocked by an antibody and has high amplification sensitivity and specificity. The antibody can be completely inactivated by heating for 30 seconds at a denaturation temperature and the activity of DNA polymerase is restored. Use of the "hot start" Taq DNA Polymerase can effectively inhibit the amplification caused by nonspecific annealing of PCR primers.

Product Component

Component Number	Component	Cat#/Size					
		10717ES72 (250 U)	10717ES76 (500 U)	10717ES80 (1000 U)	10717ES92 (10 KU)	10717ES93 (25 KU)	10717ES94 (50 KU)
10717	Hotstart D-Taq (5 U/μL)	50 μL	100 μL	200 μL	2 × 1 mL	5 × 1 mL	10 mL

Shipping and Storage

The Hieff Unicon™ Hotstart Direct Taq DNA Polymerase products are shipped with ice pack and can be stored at -20°C for 2 years.

Reaction System

Components	Vloume(μL)	Final Concentration
2× Buffer[a]	25	1×
Primer/Probe mix[b]	X	0.1 μmol/L-0.5 μmol/L
Hotstart D-Taq (5 U/μL)[c]	1.2	0.12 U/μL
Template DNA	X	0.1-100 ng
Water, nuclease-free	up to 50	-

[Note]:

(a) According to the different experimental requirements, you need to prepare your own corresponding reaction Buffer. If basic reaction Buffer is required, Cat#11374 is recommended.

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

(c) Adjust the amount of Taq enzyme according to the specific experimental application.

Refer to The Amplification Procedure (Two-Step Protocol)

Cycle step	Temperature	Time	Cycles

Initial denaturation	95℃	5 min	1
Denaturation	95℃	15 sec	45
Annealing / Extension	60℃[a]	30 sec[b]	

[Note]:

a) Amplification reaction: The amplification reaction temperature is adjusted according to the designed primer Tm values.

b) Fluorescent signal acquisition: Different qPCR instruments require different fluorescence signal acquisition time, please set according to the minimum time limit.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. This product is for research use **ONLY**!