

Hieff Unicon™ Hotstart J-Taq DNA polymerase, 5 U/μL

Product Information

Product name	Cat#	Size
Hieff Unicon™ Hotstart J-Taq DNA polymerase, 5 U/μL	10723ES72	250 U
	10723ES76	500 U
	10723ES80	1000 U
	10723ES92	10000 U
	10723ES93	25000 U

Product Description

Hieff Unicon™ Hotstart J-Taq DNA polymerase is a thermostable Taq DNA Polymerase mutant complexed with a proprietary antibody that inhibits polymerase activity below 60°C. The polymerase activity can only be released after heating at 95°C, thus avoiding nonspecific amplification and primer-dimer formation during sample preparation and heating process prior to PCR cycling. Hieff Unicon™ Hotstart J-Taq DNA polymerase, like wild-type Taq DNA polymerase, also has 5'-3' polymerase activity and 5'-3' exonuclease activity, but lacks any detectable 3'-5' exonuclease activity.

Package Information

Component number	Component	Cat#/Size				
		10723ES72 (250 U)	10723ES76 (500 U)	10723ES80 (1000 U)	10723ES92 (10000 U)	10723ES93 (25000 U)
10723	Hotstart J-Taq (5 U/μL)	50 μL	100 μL	200 μL	1 mL×2	1 mL×5

Shipping and Storage

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

Reaction System

Components	Volume (μL)	Final concentration
2×Buffer	10	1×
Primer mix (10 μmol/L)	0.2-1	0.1 μmol/L-0.5 μmol/L
Probe mix (10 μmol/L)	0.2-1	0.1 μmol/L-0.5 μmol/L
Hotstart J-Taq (5 U/μL)	0.5	2.5 U
DNA Template	100 pg-100 ng	-
Sterile ultra-pure water	up to 20	-

[Note]: The optimal concentration for above components can be adjusted according to the specific experimental conditions.

Amplification Procedure (Two-Step Method)

Cycle step	Temperature	Time	Cycles
Initial denaturation	95°C	5 min	1
denaturation	95°C	15 sec	40
annealing/extension	60°C	30 sec	

[Note]: The annealing/extension temperature can be appropriately adjusted according to the experimental requirements.

Caution

For your safety and health, please wear lab coats and disposable gloves for operation.