

HotStart *Taq* DNA Polymerase

Cat # : PT-GL-HTAQ Size : 250U (5U/ μ l)
SA-GL-HTAQ Size : 25U (5U/ μ l)

Product Description:

"HotStart *Taq* DNA Polymerase" is a recombinant, thermostable, modified DNA polymerase from *Thermus aquaticus*, expressed in *E.coli*. This enzyme is designed for being used in HotStart PCR applications. The enzyme is supplied in an inactive state and requires an activating step (95 °C 10 min) at the beginning of the end-users' PCR program.

Components: stored in -20 °C for at least 1 year

* 1 tube of 50uL HotStart *Taq* DNA polymerase in HotStart *Taq* Storage Buffer (SA: 5 μ l)

* 1 tube 10X HotStart *Taq* PCR Buffer 1mL (SA: 100 μ l)

HotStart *Taq* Storage Buffer :

[20 mM Tris-HCl (pH 8.0), 100 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 0.5% Nonidet-P40 (v/v), 0.5% Tween-20 (v/v) and 50% glycerol.]

10X HotStart *Taq* PCR Buffer :

[150 mM Tris-HCl (pH 8.0 at 25 °C), 500 mM KCl, include 15 mM MgCl₂.]

General Protocol:

Recommended PCR reaction mix

Reagent	Quantity	Final concentration
HotStart <i>Taq</i> DNA Polymerase (5U/ μ l)	0.6 μ l	1.25 U
10X HotStart <i>Taq</i> PCR Buffer with MgCl ₂	5 μ l	1X
dNTP Mixture (10mM each)	1 μ l	200 μ M each
Primer 1	variable	0.1-1.0 μ M
Primer 2	variable	0.1-1.0 μ M
DNA Template	variable	<0.5 μ g
Nuclease-Free Water	Up to 50 μ l	-

Recommended PCR cycles

Stage	Temperature	Time
Initial denature	95°C	10 min
Denature	95°C	0.5-1 min
Annealing	25-40 cycles* 45-65°C*	30 sec
Extension		72°C
Final extension	72°C	10 min
Cooling	4°C	Indefinite

* Annealing temperature is depending on the T_m value of primers.

* Cycle Number

- For experimental sample, please test for your own cycle conditions.
- This enzyme is stored in -20 °C for at least 1 year.

Research Use Only

Please do not hesitate to contact us while you have any questions.
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