AddStart Taq DNA Polymerase

Product Information

Product Code 18500

Provided with
1. AddStart Taq DNA Polymerase (5 U/µl) 100 µl
2. 10x Reaction Buffer 1.0 mL
3. 10 mM dNTP Mix. 1.0 mL

Storage Conditions -10°C ~ -30°C

Stability Stable for 2 years from manufacturing date.

Storage Buffer 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 3 mM $MgCl_2$, 1 mM DTT, 0.1% Tween® 20 and 50% (v/v) glycerol

10 mM dNTP Mix Premixed aqueous solutions of dATP, dCTP, dGTP and dTTP, each at a final concentration of 2.5 mM

Description

AddStart Taq DNA Polymerase is a highly thermostable recombinant DNA polymerase derived from the thermophile, ***Thermus aquaticus,*** and is a AddStart Taq DNA Polymerase by specific anti - Taq monoclonal antibody.
AddStart Taq DNA polymerase catalyzes the 5′→3′ synthesis of DNA but has no detectable 3′→5′ proofreading exonuclease activity, and possesses low 5′→3′ exonuclease activity, which results in a 3′-dA overhang on the PCR product. Especially, this enzyme can be applied to multiplex PCR, allele specific PCR, SNP analysis and real-time PCR by fluorescent intercalating dye like SYBR Green I® and TaqMan® Probe.

Applications

- Real - time PCR
- General PCR
- Colony PCR
- Screening PCR
- Cloning

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

Nuclease-Free Water	x µl
10x Reaction Buffer	2 µl
10mM dNTP Mixture	2 µl
Forward primer (10 µM)	0.25 ~ 2 µl
Reverse primer (10 µM)	0.25 ~ 2 µl
DNA template	x µl
AddStart Taq DNA Polymerase (5 U/µl)	0.2 µl
Total reaction volume	20 µl

* Recommendation of template DNA concentration in a 20 µl reaction volume
1) Human genomic DNA: 0.1 ng ~ 1 µg
2) Bacterial, Plant genomic DNA: 0.1 ng ~ 100 ng
3) Plasmid DNA: 0.01 ng ~ 5 ng

2. PCR cycling

Initial denaturation	95°C, 5 - 10 min
PCR cycling (25 - 40 cycles)	95°C, 15 - 30 sec
	55 - 65°C, 15 - 30 sec
	72°C, 30 - 60 sec
Final extension	72°C, 5 min
Hold	12°C, ∞

Manufacture

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