

TAQ POLIMERASA (HS TAQ) 1000 U, 5U/UL



Description

HSTM Taq DNA Polymerase is a thermostable recombinant DNA polymerase derived from thermophilic bacterium Thermus aquaticus, its molecular weight is 94 kDa. HSTM Taq DNA Polymerase can amplify DNA target up to 5 kb. The elongation velocity is $0.9^{\sim}1.2$ kb/min. It has 5' to 3' polymerase activity but lacks of 3' to 5' exonuclease activity, which results in a 3'-dA overhangs PCR product. All components of the HSTM PCR Buffer are at optimal concentration for efficient amplification, it contributes to highly specific incorporation of primer and template.

Features

Highly thermostable -have a half-life of over 40 min at 95°C incubation Generates 3'-dA overhangs PCR products

Applications
Routine PCR
PCR labeling
PCR sequencing
Generate PCR product for TA cloning



Quality Control

The absence of endodeoxyribonucleases, exodeoxyribonucleases and ribonucleases confirmed by appropriate quality tests

Functionally tested in PCR 10x HSTM PCR Buffer with Mg2+ 200 mM Tris-Cl(PH 8.8), 100 mM KCl, 16 mM MgSO4, 1% Triton-X-100.

Storage Buffer

20 mM Tris-HCl (pH8.0), 100mM KCl, 3 mM MgCl2 1mM DTT, 0.1% NP-40 ,0.1% Tween20, 0.2mg/ml BSA, 50% (v/v) glycerol

Definition of Activity Unit

One unit is defined as the amount of the enzyme required to catalyze the incorporation of 10 nM of dNTPs into an acid-insoluble form in 30 minutes at 70°C using hering sperm DNA as substrate.

Store all components at -20°C

Contents

Content	P1083	
HS TM Taq DNA Polymerase (5U/μΙ)	200 μΙ	
10XHS TM PCR Buffer	1.25 ml x2	
6X Loading Buffer	1 ml	

Note

- HSTM Taq DNA Polymerase has two concentrations with 2.5 U/ μ l and 5 U/ μ l, default package is 5 U/ μ l.
- 10×HSTM PCR Buffer (Mg2+ Plus) can replace with 10×PCR Buffer (Mg2+ free) and 25 mM MgCl2. Please choose the appropriate package for your experiment.

	Catalog #	Size
HS [™] Taq DNA	P1083	1,000 U
Polymerase		