

HP™ High Performance HotStart Taq DNA Polymerase

Certificate of Analysis

Catalogue Number : HOTSTARTTAQ

Unit : 250 units

Concentration : 5 units/μl

Volume : 50 μl

Produce description :

A recombinant, thermostable, modified DNA polymerase from *Thermus aquaticus*, expressed in *E.coli* for use in PCR.

Applications :

This enzyme is designed for use in Hot Start PCR applications. The enzyme is supplied in an inactive state and requires activating. This is achieved by the addition of a single 10 min. 95 °C pre-incubation step at the beginning of the end-users thermal cycle program.

Stability : The undiluted enzyme mix is stable when stored at -20°C

10X PCR Buffer :

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

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.

Unit Definition :

One unit is defined as the amount of enzyme that will incorporate 10 mmole of dNTP's into acid insoluble material in 30 minutes at 70 °C under the assay conditions below.

Unit Assay Conditions :

25 mM TAPS (pH 9.3 at 25°C), 50 mM KCl, 2 mM MgCl₂, 1 mM β-mercaptoethanol, 200 μM each dATP, dCTP(a mix of unlabelled and [³H] dCTP), dGTP, dTTP, 12.5 μg activated calf thymus DNA, in a total volume of 50 μl.

Quality Control :

Each lot is tested for activity in PCR. Using DNA as template we guarantee an amplification of at least 10⁵.

For Research Using Only.

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

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd

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