



Datasheet, Version 2/2016

Catalog #	1609
Synonyms	Taq pol
Туре	Recombinant
Source	E. coli
Species	Thermus aquaticus
Tag	His6
Form	50% Glycerol soluttion + Buffer 10x
Purity Shipping	>95% by SDS PAGE Ice pack

Introduction

Our Tag DNA Polymerase is a genetically modified version of wt Tag DNA polymerase optimized for all standard PCR applications. It provides higher sensitivity, longer PCR products and higher yields compared to conventional Tag DNA polymerases. Tag DNA Polymerase could be used with the same cycling conditions as conventional Tag DNA polymerase with minimum optimization. It is supplied with optimized Tag 10x buffer, which includes 20 mM MgCl2.

Description

Tag DNA polymerase is a highly pure recombinant enzyme with a high processivity. It contains His6 tag and could be efficiently removed for downstream applications. It is supplied with proprietary Tag 10x buffer, which includes KCl, (NH4)2SO4, 2mg/ml BSA and 20 mM MgCl2. The concentration is 5 U/ul. Typical reaction setup (25-45 cycles): Initial denaturation: 95C 1-3 min, Denaturation: 95C 30 s, Annealing: Tm-5C 30 s, Extension*: 72C 1 min, Final Extension: 72C 5-15 min. *The recommended extension time is 1 min for PCR products up to 2 kb. For longer products, the extension time should be prolonged by 1 min/kb.

Application

PCR reactions, PCR labeling - effectively incorporates modified dUTP (Biotin, Digoxigenin, Cy5, Cv3), PCR Mutagenesis, Fill-in reactions, Primer extension, T/A cloning

Purification method

Affinity chromatography

Formulation

Storage buffer: 50mM Tris pH 8.0, 150 mM NaCl, 1 mM DTT, 0.1mM EDTA, 0.5% (v/v) Tween 20, 50% (v/v) glycerol

Specificity

Product overhang: 3'-A

Storage

Store at -20C Analyte specific reagent (ASR) manufactured under ISO 13485. **Country of origin: Czech Republic**



www.protean.bio info@protean.bio +420 380 120 427