



Datasheet, Version 2/2016

Catalog # 1609 **Synonyms** Tag pol

Type Recombinant

Source E. coli

Species Thermus aquaticus

Tag His6

Form 50% Glycerol soluttion + Buffer 10x

**Purity** >95% by SDS PAGE

Shipping 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, Cy3), 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** 

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