

Certificate of Analysis

Product Name: *Taq* DNA Polymerase

Catalog No.: L7051001 L7051200

Lot No.:

Shipping and Storage Condition: Shipping in Dry Ice and storing in -20°C

Shelf Life: 1 year from the date of receipt under proper storage conditions

Description

Taq DNA polymerase is a thermostable enzyme that possesses a non-processive 5'-3' polymerase activity and double stranded specific 5'-3' exonuclease activity in the presence of magnesium.

Source

An *E. coli* strain that carries the *Taq* DNA Polymerase gene from *Thermus aquaticus* YTI.

Storage Buffer

50 mM Tris pH 8.0, 100 mM NaCl, 1 mM DTT, 50% glycerol, 0.1 mM EDTA, 1% TritonX-100.

Unit Definition

One unit is defined as the amount of enzyme required to incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 75°C.

Reaction Buffer (10X)

100 mM Tris pH 9.0, 25 mM MgCl₂, 500 mM KCl, and 1% TritonX-100.

Concentration: 5 units/μl.

Application: Primer extension; PCR reaction.

Quality Assurance: Free of endonucleases and exonucleases.

Reaction Condition (for a 50 μl reaction)

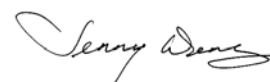
10X reaction buffer	5 μl
10 mM dNTP	4 μl
DNA template (10 ng – 5 μg)	x μl
<i>Taq</i>	0.5 μl
Primers	x μl
H ₂ O	x μl
	50 μl

Components

- 2 X 500 units 1x200 units of *Taq* DNA Polymerase
- 2x1,200 μl 1x500 μl 10X PCR buffer.
- One of Certificate of Analysis

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY _____



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