www.biochain.com

Concentration: 5 units/µL

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Certificate of Analysis

Product Name: Taq DNA Polymerase

Catalog No: L7051001 /L7051200

Shipping and Storage Condition: Dry Ice

Storage Condition: -20°C

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

Description

Taq DNA polymerase is a thermostable enzyme that posscesses 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.

Quality Assurance: Free of endonucleases and exonucleases.

Reaction Condition (for a 50 $\,\mu$ l reaction) 10X reaction buffer 5 $\,\mu$ l 10 mM dNTP 4 $\,\mu$ l DNA template (10 ng – 5 $\,\mu$ g) x $\,\mu$ l Taq 0.5 $\,\mu$ l

Components

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

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY: