

TERMIPol® DNA Polymerase

DNA Polymerase for MALDI-TOF and other applications with unconventional nucleotides



Some applications of this product may require a license which is not provided by the purchase of this product.

For research use only.

85 /100 11 Citations

Thermostable DNA polymerase for highly efficient incorporation of unconventional nucleotides.

efficient incorporation of ddNTPs, acyNTPs, or fluorescent nucleotides

the assay success rate of 99% in MALDI-TOF

robust and reliable

reaction set-up and shipment without dry ice

Ordering

Choose Product Size

500 U | 100 µl

2000 U | 400 µl

500 U | 100 µl **free sample**

REQUEST FOR BULK SIZE

Reagents Provided

Item	Pcs.	Vial size
TERMIPol® DNA Polymerase	1	500 U 100 µl
10x Reaction Buffer C	1	5 ml
100 mM MgCl ₂	1	5 ml

Description

TERMIPol[®] DNA Polymerase is a thermostable DNA polymerase suited for MALDI-TOF mass spectrometry and other primer extension platforms.

The enzyme has 5'→3' polymerase activity and enhanced efficiency for incorporating unconventional nucleotides (ddNTPs, acyNTPs, fluorescent dNTPs and labeled ddNTPs).

Applications

MALDI-TOF mass spectrometry

Primer extension

Mass-array

Properties

Concentration: 5 U/μl

Hot-start: no

Error rate per nucleotide per cycle is app. 8×10^{-5}

Estimated half life at 95°C is 1.5 hours.

Storage and Dilution Buffer: 50% glycerol (v/v), 20 mM Tris-HCl pH 8.7 at 25°C, 100 mM KCl, 0.1 mM EDTA and stabilizers.

Source: Purified from an E.coli strain that carries an overproducing plasmid containing a modified gene of *Thermus aquaticus* DNA Polymerase.

Unit definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTP into an acid-insoluble form in 30 minutes at 74°C.

Reagents

TERMIPol[®] DNA Polymerase

10x Reaction buffer C 500 mM Tris-HCl pH 9.5 at 25°C

100 mM MgCl₂

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