

T3 RNA Polymerase

Cat.#	Size	Conc.
RP004S	2,000 units	20 units/μl
RP004L	10,000 units	20 units/μl

Store at -20°C

Supplied with: 10X T3 RNA Polymerase Buffer
10X DTT
Sterile water (RNase free)

India Contact:

Life Technologies (India) Pvt. Ltd.
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Product description

T3 RNA Polymerase is highly specific for its own promoter of a conserved 23 bp sequence. This sequence does not efficiently recognize by SP6 or T7 RNA Polymerases.

Therefore, without cross-talk from nearby SP6 or T7 promoters it will transcribe large amounts of RNA from DNA sequences.

Characteristics

- Isolated from an E. coli strain harboring a plasmid that over expresses T3 RNA polymerase
- mRNA generation for in vitro translation systems

Applications

- mRNA generation for in vitro translation systems
- Radiolabeled RNA probe preparation
- RNA probe preparation for hybridization
- Genomic sequencing
- RNase protection studied

Unit Definition

One unit the amount of T3 RNA polymerase required to catalyze the incorporation of 1 nmol of nucleoside triphosphate into acid-insoluble material in 60 min at 37°C.

Reaction Conditions

1X T3 RNA Polymerase buffer, Incubate at 37°C

For Research Use Only. Not for use in diagnostic procedures.

ISO9001 ISO14001 ISO13485

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Standard PCR conditions

- RNA polymerization conditions

10X T3 RNA Polymerase Buffer	5 μl
T3 RNA Polymerase (20 units/μl)	1 μl
rNTP mixture (5 mM each)	5 μl
10X DTT	5 μl
Double stranded DNA template (1 μg/μl)	1 μl
RNase Inhibitor (40 units/μl, Cat.# M007)	1 μl
Sterile water (RNase free)	up to 50 μl
→Incubate at 37°C for 60 to 120 min.	
→Terminate reaction by adding 2 μl of 0.5 M EDTA (pH 8.0)	
※Reagents and materials not provided :rNTP	

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