

# T3 RNA Polymerase

Cat,# Size Conc. **RP004S** 2.000 units 20 units/ul RP0041 10,000 units 20 units/ul

Store at -20℃

Supplied with: 10X T3 RNA Polymerase Buffer

10X DTT

Sterile water (RNase free)

### India Contact:

Life Technologies (India) Pvt. Ltd. 306, Aggarwal City Mall, Opposite M2K Pitampura Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222 Mobile: +91-9810521400

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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 acidinsoluble material in 60 min at 37℃

### **Reaction Conditions**

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

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

ISO9001 ISO14001 ISO13485

## Storage Conditions

50 mM Tris-HCl (pH8 0), 150 mM NaCl, 5 mM DTT. 0.1 mg/ml BSA, 0.1% Triton X-100,50% glycerol (v/v).

### **Ouality Control**

- Endonuclease -free
- Exonuclease-free
- Non-Specific DNase Activity
- RNA Polymerase Specificity:

**Storage Conditions** 

**Ouality Control** 

- Exonuclease-free

- RNase Activity

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- RNase Activity

# Life Technologies™

**Life Technologies**™

Standard PCR conditions

- RNA polymerization conditions

rNTP mixture (5 mM each)

(40 units/µl, Cat.# M007)

Sterile water (RNase free)

10X DTT

(1 µg/µl)

RNase Inhibitor

10X T3 RNA Polymerase Buffer

T3 RNA Polymerase (20 units/µl)

Double stranded DNA template

Incubate at 37℃ for 60 to 120 min

\*Reagents and materials not provided :rNTP

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→Terminate reaction by adding 2 µl of 0.5 M EDTA (pH 8.0)

5 ul

1 ul

5 ul

5 ul

1 ul

1 ul

up to 50 ul

Your Molecular & Cell Technology Partner

### Standard PCR conditions

- RNA polymerization conditions

5 µl	
1 µl	
5 µl	
5 µl	
1 ul	
ιμι	
1 ul	
ιμι	
p to 50 µl	
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# **enzy**nomics

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