

## 

Lot: 8

Exp: 07/19

Store at -20C

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T7 RNA

Polymerase

E355

For more details

scan the code

5,000 units

100,000 u/ml

## CERTIFICATE OF ANALYSIS

Source:

An E.coli strain that carries the cloned phage T7 gene I.

Storage Conditions:

50 mM Tris-HCI (pH 7.5), 100 mM NaCl, 20 mM 2mercaptoethanol.1 mM EDTA.

50% glycerol, 0.1% Triton X-100. Store at - 20° C.

1X SE-T7 RNA Polymerase Buffer:

50 mM Tris-HCl,(pH 7.5@ 25°C), 6 mM MgCl<sub>2</sub>, 10 mM DTT, 2 mM spermidine.

Applications:

-radiolabeled RNA probe preparation;

double-stranded deoxyribooligonucleotides was observed after incubation with 100 units of enzyme for 3 hours at 37° C.

to incorporate 1 nmol of dNTP into an acid-insoluble

**Unit Definition:** 

material for 1 hour at 37°C. **Quality Control Assays:** 

One unit is defined as the amount of enzyme required

Nonspecific endonuclease assay:

No appearance of nicked DNA was detected after incubation of 1µg supercoiled pUC19 DNA with 100 units of enzyme for 4 hours at 37° C. No alteration of the pattern of DNA bands was

detected after incubation of  $1\mu g \lambda/HindIII$  DNA fragments with 100 units of enzyme in 50 µl of reaction mixture for 16 hours at 37° C.

Oligonucleotide Assay:

No detectable degradation of a single-stranded and

Reagents Supplied with Enzyme:

P. 3696-3701). 10X SE-T7 RNA Polymerase Buffer.

Test for detection of RNase contaminants:

No fluorescence increasing was detected after

incubation of 100 units of enzyme with 0.1 mM of

fluorescent-labeled deoxyribooligonucleotide including ribonucleotide for 30 min at 37° C. (B.R.Kelemen, T.A. Klink, M.A. Behlke, S.R.Eubanks, P.A. Leland, R.T. Raines, 1999, Nucleic Acids Res., 27,

- -RNA generation for in vitro translation;
- -RNA generation for studies of RNA structure, processing and catalysis.