T7 RNA Polymerase

(50U/µl) (w/10× IVT Buffer)

Product Code: 98343 • **Packing Units:** 1000 Units, 5000 Units

T7 RNA polymerase is a monomeric bacteriophage encoded DNA directed RNA polymerase, which catalyzes the formation of RNA in the 5'-3' direction. In the process of initiation of transcription, T7 recognizes a specific promoter sequence, the T7 promoter.

Source:

T7 RNA polymerase is isolated from E. coli BL21 carrying the plasmid pAR1219 which contains T7 gene I under the control of the inducible lac UV5 promoter.

Applications:

- Radiolabeled RNA probe preparation
- RNA generation for in vitro translation
- RNA generation for studies of RNA structure, processing and catalysis
- Expression control via anti-sense RNA

Concentration and Size:

50,000 units/ml.

Unit Definition:

One unit is defined as the amount of enzyme required to catalyze the incorporation of 5nmol of rCTP into an acid-insoluble product in 1 hour at 37°C in a total volume of 100µl.

Storage Temperature:

– 20°C.

Storage Buffer:

20mM Tris-HCl pH 7.9, 100mM NaCl, 10mM DTT, 0.1% Triton X-100, 1mM EDTA, 50%(v/v) Glycerol.

Please contact:

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