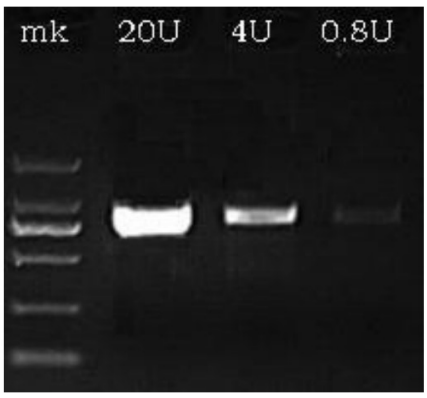
GMP Grade | Bioactive

# T7 RNA Polymerase

Catalog # DM0009 Size 50 kU

## Applications




### In vitro Transcription

RNA transcription in vitro. From left to right, the amount of T7 RNA Polymerases were 20 U, 4 U, 0.8 U. The transcription fragment was 2Kb.

## Specification

| | |
|---|---|
| **Product Description** | T7 RNA polymerase is a T7 promoter-specific, DNA-dependent, 5'→3' RNA polymerase from T7 bacteriophage. Using double stranded DNA as the template, it transcribes RNA complementary to the single stranded DNA located at the downstream of T7 promoter. T7 RNA polymerase has been commonly used for in vitro mRNA synthesis. |
| **Form** | Liquid |
| **Purity** | 95% ≤ |
| **Activity** | 49 KU/mL to 51 KU/mL |
| **Recommend Usage** | Single stranded RNA synthesis<br>RNA probe synthesis<br>siRNA precursor synthesis<br>Precursor for RNA splicing preparation<br>Capped RNA synthesis<br>The optimal working dilution should be determined by the end user. |
| **Regulatory Status** | GMP grade |

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|---|---|
| **Storage Buffer** | 100 mM NaCl, 50 mM Tris-HCl (pH 7.9), 1 mM EDTA, 20 mM 2-mercaptoethanol, 0.1% Triton X-100 ; 50% (v/v) Glycerol. |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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