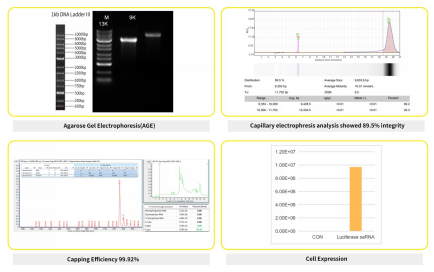
GMP Grade | Bioactive

T7 RNA Polymerase

Catalog # DM0010 Size 200 kU

Applications



In vitro Transcription

Optimization of Transcription from saRNA Templates.



In vitro Transcription

The T7 RNAP mutant paired with a specially optimized reaction buffer, maintains a high level of all-around performance, from yield (more than 200 ug of RNA can be obtained with 1 ug of template), to integrity (integrity can be increased by 5 to 10% with different quality of templates), and capping efficiency (95 to 100%).

Specification

Product Description	The polymerase is produced in E. coli. As a biological macromolecule, mRNA can be synthesized on a large scale by in vitro transcription (IVT). T7 RNA polymerase can be used for in vitro transcription t o obtain more synthetic products.
Form	Liquid
Purity	95% ≤
Activity	180 U/uL to 220 U/uL

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Recommend Usage	Single stranded RNA synthesis RNA probe synthesis siRNA precursor synthesis Precursor for RNA splicing preparation Capped RNA synthesis The optimal working dilution should be determined by the end user.
Regulatory Status	GMP grade
Storage Buffer	50 mM Trizma base, 100 mM NaCl, 1mM EDTA, 20 mM β-ME, 50% (v/v) Glycerol, 0.1% Triton X-100, pH 7.5.
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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