

## CERTIFICATE OF ANALYSIS

Product Name	T7 RNA Polymerase (GMP-grade, low dsRNA, 250 U/μL)
Catalog Number	T703-E51B
Lot #	1M2895-10
Storage Conditions	-20°C
Expiration Date	2025-12-05

	Test	Specification Standard	Results
1	Appearance	The product name, batch number, storage conditions, and expiration date should be clearly visible. Each tube must be properly labeled and undamaged. The finished reagent box packaging must remain intact, with accurate instructions and label information. The liquid inside is colorless.	Pass
2	Enzyme activity	250-300 U/μL	296.2 U/μL
3	Protein concentration	≥0.5 mg/ml	0.73 mg/ml
4	Protein Purity	≥95%	100%
5	Protease	The polyacrylamide gel electrophoresis shows no degradation of the protein substrate when 200U of the enzyme and 20μg of BSA substrate were added to a 20μl reaction system and incubated at 37°C for 3 hours.	Pass
6	Exonuclease	The agarose gel electrophoresis shows no changes in the DNA bands when 200U of the enzyme and 0.5μg of λDNA-HindIII digest were added to the 20μl reaction system and incubated at 37°C for 4 hours.	Pass
7	Nickase	The agarose gel electrophoresis shows no change in the plasmid DNA when 200U of the enzyme and 0.5μg of plasmid DNA were added to the 20μl reaction system and incubated at 37°C for 4 hours.	Pass
8	RNase	The agarose gel electrophoresis shows no changes in the RNA bands when 200U of the enzyme and 0.5μg of 293T RNA were added to the 20μl reaction system and incubated at 37°C for 4 hours.	Pass
9	E. coli host protein	<50 ppm	Pass
10	E. coli host DNA	<10 fg/U	Pass
11	Endotoxin	<20 EU/mg	Pass
12	Mycoplasma examination	Negative	Pass

Approved by:

  
 Quality Assurance

Date

2025-04-01