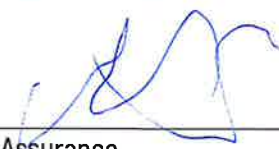


CERTIFICATE OF ANALYSIS

Product Name	mRNA Vaccinia Capping Enzyme GMP-grade (10 U/μL)
Catalog Number	VAC01-E59B
Lot #	1M2895-8
Storage Conditions	-20°C
Expiration Date	2025-12-15

	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	Foreign body	No visible foreign body	Pass
3	Enzyme activity	10-12 U/μL	11.9 U/μL
4	Protein concentration	≥0.1 mg/ml	Pass
5	Protein Purity	≥95%	100%
6	Protease	The polyacrylamide gel electrophoresis shows no degradation of the protein substrate when 50U of the enzyme and 20μg of BSA substrate were added to a 20μl reaction system and incubated at 37°C for 3 hours.	Pass
7	Exonuclease	The agarose gel electrophoresis shows no changes in the DNA bands when 50U 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
8	Nickase	The agarose gel electrophoresis shows no change in the plasmid DNA when 50U of the enzyme and 0.5μg of plasmid DNA were added to the reaction system and incubated at 37°C for 4 hours.	Pass
9	RNase	The agarose gel electrophoresis shows no changes in the RNA bands when 50U 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
10	E. coli host protein	<50 ppm	Pass
11	E. coli host DNA	<10 fg/U	Pass
12	Endotoxin	<20 EU/mg	Pass
13	Mycoplasma examination	Negative	Pass

Approved by:


 Quality Assurance

Date

2025-04-01