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New England Biolabs Certificate of Analysis

Product Name: SP6 RNA Polymerase

Catalog Number: M0207S
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to incorporate

1 nmol ATP into an acid-insoluble material in 1 hour at 37°C.

Packaging Lot Number: 10062864
Expiration Date: 08/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 100 mM NaCl, 20 mM βME, 1 mM EDTA, 0.1 %

Triton®X-100, 50 % Glycerol, (pH 7.9 @ 25°C)

Specification Version: PS-M0207S/L v1.0

SP6 RNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0207SVIAL	SP6 RNA Polymerase	10052056	Pass	
B9012SVIAL	RNAPol Reaction Buffer	10051065	Pass	

Assay Name/Specification	Lot # 10062864
Endonuclease Activity (Nicking) A 50 μl reaction in RNAPol Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 100 units of SP6 RNA Polymerase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in RNAPol Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of SP6 RNA Polymerase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in RNAPol Reaction Buffer containing 1 µg of Lambda DNA and a minimum of 100 units of SP6 RNA Polymerase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Promoter Specificity A 50 µl reaction in RNAPol Reaction Buffer in the presence of 2 mM NTPs containing 1	Pass



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This product has been tested and shown to be in compliance with all specifications.

determined by gel electrophoresis using fluorescent detection.

Dongxian Yue

Production Scientist

16 Aug 2019

Jay Minichiello

Packaging Quality Control Inspector

02 Mar 2020



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