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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.

Lot Number: 10034633
Expiration Date: 08/2020
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 100 mM NaCl, 20 mM \(\beta ME, 1 \) 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	10018031	Pass	
B9012SVIAL	RNAPol Reaction Buffer	0181804	Pass	

Assay Name/Specification	Lot # 10034633
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.

Dongxian Yue

Production Scientist

16 Aug 2018

Michael Tonello

Packaging Quality Control Inspector

13 Feb 2019

