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New England Biolabs Certificate of Analysis

Product Name: E.coli Poly (A) Polymerase

Catalog Number: M0276S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 1

nmol of AMP into RNA in a 20 µl volume in 10 minutes at 37°C.

Packaging Lot Number: 10097628
Expiration Date: 09/2022
Storage Temperature: -20°C

Storage Conditions: 20 mM Tris-HCl, 300 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.1 %

Triton®X-100, 50% Glycerol, (pH 7.5 @ 25°C)

Specification Version: PS-M0276S/L v1.0

E.coli Poly (A) Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0276SVIAL	E.coli Poly (A) Polymerase	10091320	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10084290	Pass	
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10091363	Pass	

Assay Name/Specification	Lot # 10097628
Endonuclease Activity (Nicking) A 50 μl reaction in Poly(A) Polymerase Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 15 units of E. coli Poly(A) 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 Poly(A) Polymerase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of E. coli Poly(A) Polymerase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) E. coli Poly(A) Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Pass



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Assay Name/Specification	Lot # 10097628
and a minimum of 5 units of E. coli Poly(A) Polymerase is incubated at 37°C. After	
incubation for 4 hours, >90% of the substrate RNA remains intact as determined by	
gel electrophoresis using fluorescent detection.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Bhairavi Jani Production Scientist 24 Feb 2021 Michael Tonello

Packaging Quality Control Inspector

24 Feb 2021