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## New England Biolabs Certificate of Analysis

Product Name: E.coli Poly (A) Polymerase

Catalog Number: M0276L
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: 10067832 Expiration Date: 10/2021 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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0276LVIAL	E.coli Poly (A) Polymerase	10058338	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10056377	Pass	
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10064699	Pass	

Assay Name/Specification	Lot # 10067832
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA 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.	Pass
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



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Assay Name/Specification	Lot # 10067832
Protein Purity Assay (SDS-PAGE)  E. coli Poly(A) Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

Bhairavi Jani

Production Scientist

08 Apr 2020

Jay Minichiello

Packaging Quality Control Inspector

08 Apr 2020

