

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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 μ l volume in 10 minutes at 37°C.
Packaging Lot Number:	10148904
Expiration Date:	09/2023
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	
M0276LVIAL	E.coli Poly (A) Polymerase	10121340	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10137596	Pass	
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10141265	Pass	

Assay Name/Specification	Lot # 10148904
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
Protein Purity Assay (SDS-PAGE) E. coli Poly(A) Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 [³ H] 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
Endonuclease Activity (Nicking) A 50 µl reaction in Poly(A) Polymerase Reaction Buffer containing 1 µg of	Pass





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Assay Name/Specification	Lot # 10148904
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.	

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 18 Apr 2022

Erin Varney

Packaging Quality Control Inspector 18 Apr 2022

