

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:	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 μ l volume in 10 minutes at 37°C.
Packaging Lot Number:	10058340
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0276SVIAL	E.coli Poly (A) Polymerase	10058339	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10056377	Pass	
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10051056	Pass	

Assay Name/Specification	Lot # 10058340
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 [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
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 # 10058340
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.

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Bo Wu Production Scientist 07 Oct 2019

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An Minichiello Packaging Quality Control Inspector 11 Dec 2019

