

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 µl volume in 10 minutes at 37°C.

Packaging Lot Number: 10129012
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	
M0276SVIAL	E.coli Poly (A) Polymerase	10121341	Pass	
B0756AVIAL	Adenosine-5'-Triphosphate (ATP)	10118949	Pass	
B0276SVIAL	Poly(A) Polymerase Reaction Buffer	10114403	Pass	

Assay Name/Specification	Lot # 10129012
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
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
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



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Assay Name/Specification	Lot # 10129012
Protein Purity Assay (SDS-PAGE)	Pass
E. coli Poly(A) Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using	
Coomassie Blue detection.	

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

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Bhairavi Jani Production Scientist

30 Nov 2021

Josh Hersey

Packaging Quality Control Inspector

30 Nov 2021

