

New England Biolabs Certificate of Analysis

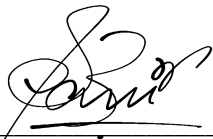
Product Name: *E.coli Poly (A) Polymerase*
Catalog Number: M0276L
Concentration: 5,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme that will incorporate 1 nmol of AMP into RNA in a 20 µl volume in 10 minutes at 37°C.
Lot Number: 10032252
Expiration Date: 08/2020
Storage Temperature: -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 | 10018747 | Pass |
| B0756AVIAL | Adenosine-5'-Triphosphate (ATP) | 10032254 | Pass |
| B0276SVIAL | Poly(A) Polymerase Reaction Buffer | 10020491 | Pass |

| Assay Name/Specification | Lot # 10032252 |
|---|----------------|
| 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 |

| Assay Name/Specification | Lot # 10032252 |
|---|----------------|
| 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.



Bhairavi Jani
Production Scientist
05 Sep 2018



Michael Tonello
Packaging Quality Control Inspector
14 Feb 2019