

New England Biolabs Certificate of Analysis

Product Name: Poly (U) Polymerase
Catalog Number: M0337S
Concentration: 2,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme that incorporates 1 nmol of UMP into RNA in a 50 µl reaction incubated for 10 minutes at 37°C.
Packaging Lot Number: 10209781
Expiration Date: 09/2025
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, (pH 7.5 @ 25°C)
Specification Version: PS-M0337S v1.0

| Poly (U) Polymerase Component List | | | |
|------------------------------------|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0337SVIAL | Poly (U) Polymerase | 10208338 | Pass |
| B7002SVIAL | NEBuffer™ 2 | 10189227 | Pass |

| Assay Name/Specification | Lot # 10209781 |
|---|----------------|
| Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled pUC19 DNA and a minimum of 10 units of Poly(U) 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 NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 10 units of Poly(U) Polymerase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Protein Purity Assay (SDS-PAGE) Poly(U) 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 and a minimum of 2 units of Poly(U) Polymerase is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by | Pass |

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| gel electrophoresis using fluorescent detection. | |

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.



Jessica Cane
Production Scientist
13 Sep 2023



Michael Tonello
Packaging Quality Control Inspector
19 Sep 2023