

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: Poly(U) Polymerase

Catalog #: M0337S

Concentration: 2,000 units/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.

 Lot #:
 0031802

 Assay Date:
 02/2018

 Expiration Date:
 02/2020

 Storage Temp:
 -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 Effective Date: 13 Jun 2018

| Assay Name/Specification (minimum release criteria) | Lot #0031802 |
|--|--------------|
| Endonuclease Activity (Nicking) - A 50 μ l reaction in NEBuffer 2 containing 1 μ g 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] <i>E. coli</i> 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 gel electrophoresis using fluorescent detection. | Pass |

Authorized by Derek Robinson 13 Jun 2018

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ISO 9001
Registered
Quality





Inspected by Bhairavi Jani 01 Feb 2018