

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: 10192247
Expiration Date: 05/2025
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	10187343	Pass
B7002SVIAL	NEBuffer™ 2	10173666	Pass

Assay Name/Specification	Lot # 10192247
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

Assay Name/Specification	Lot # 10192247
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
10 May 2023



Michael Tonello
Packaging Quality Control Inspector
16 May 2023