

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.
Lot Number: 10042646
Expiration Date: 05/2021
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	10042647	Pass
B7002SVIAL	NEBuffer™ 2	10033147	Pass

Assay Name/Specification	Lot # 10042646
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 # 10042646
gel electrophoresis using fluorescent detection.	

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



Tony Spear-Alfonso
Production Scientist
10 Jan 2019



Josh Hersey
Packaging Quality Control Inspector
06 Jun 2019