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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: 10098684
Expiration Date: 02/2023
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	10098685	Pass	
B7002SVIAL	NEBuffer™ 2	10097265	Pass	

Assay Name/Specification	Lot # 10098684
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³H] 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.	
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
Protein Purity Assay (SDS-PAGE) Poly(U) Polymerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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	Pass



M0337S / Lot: 10098684

Page 1 of 2



Assay Name/Specification	Lot # 10098684
<10% conversion to the nicked form as determined by agarose gel electrophoresis.	

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

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Bhairavi Jani Production Scientist

15 Mar 2021

Josh Hersey

Packaging Quality Control Inspector

15 Mar 2021

