

New England Biolabs Certificate of Analysis

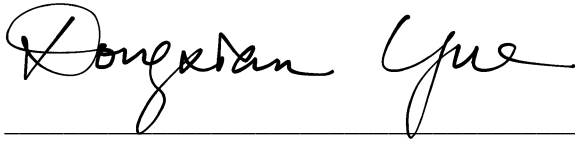
Product Name: *Ribonucleotide Solution Set*
 Catalog Number: *N0450L*
 Packaging Lot Number: *10174730*
 Expiration Date: *11/2024*
 Storage Temperature: *-20°C*
 Storage Conditions: *Supplied as Sodium salts, pH 7.5*
 Specification Version: *PS-N0450S/L v1.0*

Ribonucleotide Solution Set Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0454AAVIAL	CTP Solution	10170284	Pass
N0453AAVIAL	UTP Solution	10170283	Pass
N0452AAVIAL	GTP Solution	10170282	Pass
N0451AAVIAL	ATP Solution	10170281	Pass

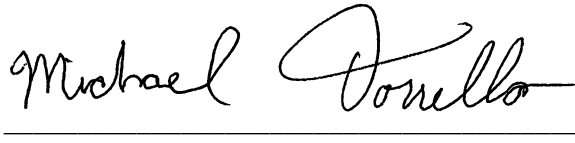
Assay Name/Specification	Lot # 10174730
Functional Testing (High Yield RNA Synthesis) A 20 µl reaction in transcription reaction buffer containing 1 µg FLuc Control Template, 2 µl T7 RNA Polymerase Mix, and 10 mM ribonucleotides (each) incubated for 2 hours at 37°C yields ≥ 150 µg RNA transcript.	Pass
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 100 nmol of each ribonucleotide 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
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 500 nmol of each ribonucleotide incubated for 16 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass

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

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Dongxian Yue
Production Scientist
07 Dec 2022



Michael Tonello
Packaging Quality Control Inspector
20 Dec 2022