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## New England Biolabs Certificate of Analysis

Product Name: Ribonucleotide Solution Set

Catalog Number: N0450L
Packaging Lot Number: 10077378
Expiration Date: 02/2022
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			
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result
N0454AAVIAL	CTP Solution	10069143	Pass
N0453AAVIAL	UTP Solution	10069142	Pass
N0452AAVIAL	GTP Solution	10069141	Pass
N0451AAVIAL	ATP Solution	10069139	Pass

Assay Name/Specification	Lot # 10077378
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** 

11 Jun 2020

Josh Hersey Packaging Quality Control Inspector

15 Jun 2020