

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Ribonucleotide Solution Set

Catalog Number: N0450L
Packaging Lot Number: 10084930
Expiration Date: 09/2022
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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0454AAVIAL	CTP Solution	10083772	Pass
N0453AAVIAL	UTP Solution	10083770	Pass
N0452AAVIAL	GTP Solution	10083767	Pass
N0451AAVIAL	ATP Solution	10083765	Pass

Assay Name/Specification	Lot # 10084930
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	Pass
incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	
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
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.

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.



N0450L / Lot: 10084930

Page 1 of 2

Dongxian Yue
Production Scientist

11 Sep 2020

Michael Tonello

Packaging Quality Control Inspector

16 Sep 2020