

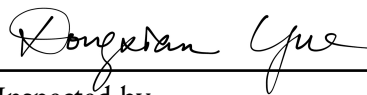
New England Biolabs Certificate of Analysis

Product Name: *Ribonucleotide Solution Set*
Catalog #: *N0450S/L*
Concentration: *100 mM each NTP*
Lot #: *0111802*
Assay Date: *02/2018*
Expiration Date: *02/2020*
Storage Temp: *-20°C*
Storage Conditions: *Supplied as Sodium salts, pH 7.5*
Specification Version: *PS-N0450S/L v1.0*
Effective Date: *23 May 2018*

Assay Name/Specification (minimum release criteria)	Lot #0111802
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
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



Authorized by
Derek Robinson
23 May 2018



Inspected by
Dongxian Yue
02 Feb 2018

