

## New England Biolabs Certificate of Analysis

*Product Name:* Ribonucleotide Solution Mix  
*Catalog Number:* N0466S  
*Concentration:* 25 mM  
*Unit Definition:*  
*Lot Number:* 10011428  
*Expiration Date:* 04/2020  
*Storage Temperature:* -20°C  
*Storage Conditions:* Supplied as Sodium salts, pH 7.5  
*Specification Version:* PS-N0466S/L v1.0

Ribonucleotide Solution Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0466SVIAL	Ribonucleotide Solution Mix	0301804	Pass

Assay Name/Specification	Lot # 10011428
<p><b>Functional Testing (High Yield RNA Synthesis)</b>            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.</p>	Pass
<p><b>RNase Activity (Extended Digestion)</b>            A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 100 nmol of Ribonucleotide Solution Mix is incubated at 37°C. After incubation for 16 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using gel electrophoresis.</p>	Pass
<p><b>Endonuclease Activity (Nicking)</b>            A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 500 nmol of Ribonucleotide Solution Mix incubated for 16 hours at 37°C results in &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass

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

*Dongxian Yue*

Dongxian Yue  
Production Scientist  
05 Jun 2018

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
05 Jun 2018