

## New England Biolabs Certificate of Analysis

**Product Name:** *Ribonucleotide Solution Mix*  
**Catalog Number:** *N0466S*  
**Concentration:** *25 mM*  
**Packaging Lot Number:** *10140299*  
**Expiration Date:** *08/2023*  
**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 | 10118138   | Pass                 |

| Assay Name/Specification   | Lot # 10140299 |
|--|----------------|
| <b>Functional Testing (High Yield RNA Synthesis)</b><br>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           |
| <b>Endonuclease Activity (Nicking)</b><br>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 <10% conversion to the nicked form as determined by agarose gel electrophoresis.  | Pass           |
| <b>RNase Activity (Extended Digestion)</b><br>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, >90% of the substrate RNA remains intact as determined by gel electrophoresis using gel electrophoresis. | Pass           |

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

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31 Mar 2022



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31 Mar 2022