

New England Biolabs Certificate of Analysis

Product Name: *Ribonucleotide Solution Mix*
Catalog Number: *N0466S*
Concentration: *25 mM*
Lot Number: *10046941*
Expiration Date: *03/2021*
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 | 10039112 | Pass |

| Assay Name/Specification | Lot # 10046941 |
|--|----------------|
| Endonuclease Activity (Nicking) 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 |
| 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 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.



Bhairavi Jani
Production Scientist
02 Jul 2019



Michael Tonello
Packaging Quality Control Inspector
02 Jul 2019