

New England Biolabs Certificate of Analysis

Product Name: *Ribonucleotide Solution Mix*
Catalog Number: *N0466L*
Concentration: *25 mM*
Packaging Lot Number: *10069961*
Expiration Date: *02/2022*
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 | 10067095 | Pass |

| Assay Name/Specification | Lot # 10069961 |
|--|----------------|
| 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.

Dongxian Yue

Dongxian Yue
Production Scientist
10 Feb 2020

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
09 Mar 2020