

New England Biolabs Certificate of Analysis

Product Name: *Ribonucleotide Solution Mix*
Catalog Number: *N0466L*
Concentration: *25 mM*
Packaging Lot Number: *10223576*
Expiration Date: *11/2025*
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	10212175	Pass

Assay Name/Specification	Lot # 10223576
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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

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Dongxian Yue
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13 Nov 2023

Michael Tonello

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Packaging Quality Control Inspector
16 Jan 2024