

Ribonucleotide Solution Mix



1-800-632-7799
info@neb.com
www.neb.com



N0466S 022131215121

N0466S

10 μ mol of each Lot: 0221312 Exp: 12/15

25 mM of each Store at -20°C

Description: Ribonucleotide Solution Mix is a buffered equimolar solution of ribonucleotide triphosphates: rATP, rCTP, rGTP and rUTP, pH 7.5 as sodium salts. The NTPs are also available as Ribonucleotide Solution Set (NEB #N0450).

Supplied as: Sodium salts, pH 7.5

Applications:

- *In vitro* transcription

Reagents Supplied:

NTP Mix (25 mM of each) 0.4 ml

Diluent Compatibility: Can be diluted using nuclease-free water

Quality Assurance: Ribonucleotides are certified free of detectable ribonucleases. Functional purity is determined by preparative *in vitro* transcription reactions.

Quality Control Assays:

Endonuclease Assay: Incubation of a 10 μ l reaction containing 1 μ l of NTP mix with 300 ng of supercoiled plasmid for 16 hours at 37°C produced < 10% nicked or linear molecules as determined by agarose gel electrophoresis.

RNase Assay: Incubation of a 10 μ l reaction containing 1 μ l of NTP mix with 40 ng of 300 base RNA transcript for 16 hours at 37°C resulted in no detectable degradation of RNA as determined by denaturing PAGE analysis.

Note: Store at -20°C . Avoid multiple freeze/thaw cycles. Dilute with nuclease-free water when necessary.

Companion Products Sold Separately:

T7 RNA Polymerase
#M0251S 5,000 units
#M0251L 25,000 units

SP6 RNA Polymerase
#M0207S 2,000 units
#M0207L 10,000 units

T7 High Yield RNA Synthesis Kit
#E2040S 50 reactions



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CERTIFICATE OF ANALYSIS

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