

## Ribonucleotide Solution Mix



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



N0466S 025140916091

# N0466S

10  $\mu$ mol of each Lot: 0251409 Exp: 9/16

25 mM of each Store at  $-20^{\circ}\text{C}$

**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  $\mu$ l reaction containing 1  $\mu$ l of NTP mix with 300 ng of supercoiled plasmid for 16 hours at  $37^{\circ}\text{C}$  produced < 10% nicked or linear molecules as determined by agarose gel electrophoresis.

**RNase Assay:** Incubation of a 10  $\mu$ l reaction containing 1  $\mu$ l of NTP mix with 40 ng of 300 base RNA transcript for 16 hours at  $37^{\circ}\text{C}$  resulted in no detectable degradation of RNA as determined by denaturing PAGE analysis.

**Note:** Store at  $-20^{\circ}\text{C}$ . 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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