

## Ribonucleotide Solution Set



1-800-632-7799  
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N0450S 002130715071

# N0450S

**10 µmol of each**                      **Lot: 0021307**  
**Store at -20°C**                      **Exp: 7/15**

**Description:** The Ribonucleotide Solution Set (NTP Set) consists of four separate solutions of ATP, GTP, CTP and UTP, pH 7.5 as sodium salts. The NTPs are also available as a Ribonucleotide Solution Mix (NEB #N0466).

### Reagents Supplied:

100 mM ATP Solution	0.1 ml
100 mM CTP Solution	0.1 ml
100 mM GTP Solution	0.1 ml
100 mM UTP Solution	0.1 ml

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**Diluent Compatibility:** Can be diluted using nuclease-free water.

### Applications:

- *In vitro* transcription
- RNA tailing by Poly(A) and Poly(U) Polymerases
- Substrates or cofactors for many enzymes

### Quality Controls

NTPs are highly purified, > 99% pure by HPLC, and are free from detectable DNase, RNase and Nickase. They were validated by *in vitro* transcription using the T7 High Yield RNA Synthesis Kit (NEB #E2040).

**RNase Assay:** Incubation of a 10 µl reaction containing 1 µl of NTP 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.

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

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**Usage Notes:** Store at -20°C. Avoid multiple freeze/thaw cycles. Dilute with nuclease-free water when necessary. NTPs are used with many RNA products from NEB.

### Companion Products Sold Separately:

T7 High Yield RNA Synthesis Kit  
#E2040S                      50 rxns

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