

Ribonucleotide Solution Set



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



N0450S 007160218021

N0450S

10 µmol of each

Lot: 0071602

Store at -20°C

Exp: 2/18

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

Ribonucleotide Solution Set



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



N0450S 007160218021

N0450S

10 µmol of each

Lot: 0071602

Store at -20°C

Exp: 2/18

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

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.

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.

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



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS

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



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS