

# 100mM NTP Set

Shipping: On Dry/Blue Ice      Catalog numbers  
Exp. Date: See vial              BIO-39052: 4 x 25µmol  
Batch No.: See vial  
Concentration: 100mM each

Store at -20°C



A Meridian Life Science® Company

## Storage and stability:

100mM NTP Set is shipped on Dry/Blue Ice and can be stored for up to 12 months at -20°C. Avoid multiple freeze/thaw cycles. For long-term storage, aliquoting is recommended.

## Safety precautions:

Please refer to the material safety data sheet for information.

## Typical Analysis:

Sodium salts, >98% nucleoside triphosphates (HPLC, area %), <2% nucleoside diphosphates.

## Notes

This product insert is a declaration of analysis at the time of manufacture. Research Use Only.

## Features

- Validated for *in vitro* transcription
- DNase, RNase and Nickase free
- 98% pure by HPLC
- Convenient, pre-optimized mix available

## Applications

- *In vitro* transcription reactions
- Production of RNA probes and transcripts

## Description

The NTP Set consists of 4 separate 100mM solutions (ATP, GTP, CTP, and UTP, (pH 7.5)) as sodium salts. Each solution contains 25µmol (250µl) of the corresponding NTP. For *in vitro* RNA synthesis, mix equal volumes of all separate NTP solutions.

Bioline Ultra-pure NTPs (Ribonucleoside-5'-tri-phosphates) are enzymatically synthesized from premium quality raw materials, using highly specific production systems in our purpose built facilities. The manufacturing process eliminates impurities such as ribo-analogues and other contaminants commonly observed in other commercially available NTP products. Bioline NTPs are >98% pure as analyzed by HPLC and are free of DNase, RNase, Protease, Phosphatase and nicking activity.

## Product Citations:

1. Kleman-Layer, K., *et al. Assays & Drug Dev. Tech.* **7** 56-67 (2009)
2. Llarena, M., *et al. Biochim. Biophys. Acta* **1760(12)**, 1819-26 (2006)
3. Peyvandi, F., *et al. Blood* **97(4)**, 960-965 (2001)

## Associated Products:

Product Name	Pack Size	Cat No
NTP Mix	1ml	BIO-39050

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