

# 100mM dUTP

Shipping: Ambient temperature Catalog numbers

Exp. Date: See bottle BIO-39035 1 x 250µl

Batch No.: See bottle



A Meridian Life Science® Company

Store at -20°C

## Storage and stability:

dUTP is shipped on dry ice or blue ice and can be stored for 24 months at -20°C or -70°C in a constant temperature freezer. Avoid multiple freezing/thawing. For long-term usage, aliquoting is recommended.

## Safety precautions:

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Please refer to the material safety data sheet for further information.

## Formula:

$C_9H_{11}Li_4N_2O_{14}P_3$

## Molecular Weight:

492.884g/mol

## Characteristics:

A 100mM solution at pH 7.5 containing 25µmol (250µl) of the dUTP.

## Notes:

Research Use Only

## Description

Bioline Ultra-pure dNTPs are enzymatically synthesized from premium quality raw materials, using highly specific production systems in our purpose built facilities. The manufacturing process eliminates impurities and PCR-specific inhibitors such as modified nucleotides, tetraphosphates and pyrophosphates commonly observed in other commercially available dNTP products. Bioline dNTPs are purified with quantitative HPLC and possess at least 99% purity.

All Bioline dNTPs are supplied as lithium salts in purified water at pH 7.5. Lithium salts have greater resistance to repeated freezing and thawing cycles than sodium salts, and lithium salt dNTP preparations remain sterile over the entire shelf-life due to the bacteriostatic activity of lithium towards various microorganisms.

## Features

- Ultra-pure: >99% trisphosphate by HPLC
- Extended shelf-life of 24 months at -20°C
- Free from PCR inhibitors
- DNase, RNase and Nickase free
- Manufactured by Bioline in a purpose-built facility
- Custom, bulk and OEM nucleotide service

## Applications

- Standard and long range PCR assays
- cDNA synthesis
- qPCR
- Microarrays
- DNA sequencing
- Labeling

## dATP Characteristics

2'-deoxyuridine-5'-triphosphate Solution

SPECTRAL & HPLC ANALYSIS	PERFORMANCE
$\lambda_{max}$ pH 7.0	262nm
$\epsilon$ at $\lambda_{max}$	10.0 E x $mmol^{-1}$ x $cm^{-1}$
$A_{250}/A_{260}$	0.75 $\pm$ 0.03
$A_{280}/A_{260}$	0.38 $\pm$ 0.02
Concentration	100mM $\pm$ 2%
Appearance	Clear Colorless Solution
pH of Solution	7.5
dNTP (HPLC Area)	$\geq$ 99%
dNDP (HPLC Area)	< 1%
DNases, RNases, Nicking Activity	Negative

## Associated products

Product Name	Pack Size	Catalog No.
dNTP Mix 100mM total	1 x 500µl	BIO-39028
dNTP Set	4 x 250µl	BIO-39025
HyperLadder I	200 Lanes	BIO-33025
Agarose	500g	BIO-41025

## Product citations

1. Meijer, P.-J., *et al. Meth. Mol. Biol.* **525(3)**, 1-17 (2009).
2. Dellinger, M., *et al. Develop. Biol.* **319(2)**, 309-320 (2008).
3. Hampson, L., *et al. FEBS Lett.* **581(21)**, 3955-3960 (2007).
4. Lloyd, R.E., *et al. Gene.* **172**, 2515-2527 (2006).
5. Tabone, T., *et al. NAR* **34(6)**, e45 (2006).

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