



Product Insert

100mM dTTP

Product:

2'-deoxythymidine-5'-triphosphate Solution

Catalogue Number:

BIO-39039 1 x 250µl

Features:

- >99% pure 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 laboratory
- Custom, Bulk and OEM Nucleotides service

Applications:

Suitable for a wide variety of applications such as:

- Standard PCR assays
- Long range PCR assays
- cDNA synthesis
- qPCR
- Microarrays
- DNA sequencing
- Mutagenesis
- Genotyping
- DHPLC
- Labeling

Description:**Ultra-Pure dNTPs**

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.

Improved Stability and Extended Shelf-Life

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.

Product Specifications:**Batch details:**

Pack Size: 25µmol
Concentration: 100mM
Presentation: 1 x 250µl
Batch No: See vial

Storage and Stability:

dTTP 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.

Shipping Conditions:

On Dry-Ice or Blue-Ice

Formula:

$C_{10}H_{13}Li_4N_2O_{14}P_3$

Molecular Weight:

505.9g/mol

Characteristics:

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

SPECTRAL & HPLC ANALYSIS	PERFORMANCE
λ_{max} pH 7.0	267nm
ϵ at λ_{max}	$9.6 E \times mmol^{-1} \times cm^{-1}$
A_{250}/A_{260}	0.65 ± 0.03
A_{280}/A_{260}	0.73 ± 0.02
Concentration	100mM \pm 2%
Appearance	Clear Colourless 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	Cat No
dNTP Mix 100mM total	1 x 500µl	BIO-39028
40mM total	1 x 500µl	BIO-39043
dNTP Set	4 x 250µl	BIO-39025
HyperLadder I	200 Lanes	BIO-33025
	500 Lanes	BIO-33026
Agarose	500g	BIO-41025

Notes:

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

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