



Product Insert

50mM dUTP Mix

Product:

2'-deoxynucleotide-5'-triphosphate (dUTP) Mix

dUTP Mix contains 10mM each of dATP, dCTP, dGTP and 20mM dUTP as a 50x optimised solution (pH 7.5).

Catalogue Number:

BIO-39041 1 x 500µl

Features

- Convenient ready-to-use solution
- >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.

Components

dUTP Mix 50mM 25µmol each
500µl

Product Specifications

Batch details:

Pack Size: 25µmol
Concentration: 50mM total
Presentation: 1 x 500µl
Batch No: See vial

Storage and Stability:

Store the Mix 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

Typical Analysis:

Lithium salts, >99% deoxynucleoside triphosphates (HPLC, area %), <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates.

Purity:

Bioline dNTPs are >99% pure by HPLC and are free of DNase, RNase, Protease, phosphatase and nicking activity.

dNTP Characteristics:

dNTPs	Mol. Wt	Molar Extinction
dATP	514.9	1µmol = 15.4 A ₂₅₉ units
dGTP	530.9	1µmol = 13.7 A ₂₅₂ units
dCTP	490.9	1µmol = 9.1 A ₂₇₂ units
dUTP	491.9	1µmol = 10.0 A ₂₆₂ units

Associated Products:

Product Name	Pack Size	Cat No
Uracil DNA Glycosylase (UNG)	500 Units	BIO-27044
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. Pass, M.A., et al. *Journal of Clinical Microbiology*, **38(5)**, 2001-2004, 2000.

Notes

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

UK

Bioline
16 The Edge Business Centre
Humber Road
London, NW2 6EW
U.K.

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Germany

Bioline GmbH
Im Biotechnologiepark TGZ 2
D-14943 Luckenwalde
Germany

Tel: +49 (0)33 7168 1229
Fax: +49 (0)33 7168 1244

email: info@bioline.com
website: www.bioline.com

USA

Bioline USA Inc.
305 Constitution Dr.
Taunton
MA 02780
USA

Toll Free: 888 257 5155
Tel: 508 880 8990
Fax: 508 880 8993

Australia

Bioline (Aust) Pty Ltd
PO Box 122
Alexandria NSW 1435
Australia

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

dUTP Mix Reaction Guidelines

Pre-mixed to provide a 3:1 dUTP:dNTP ratio, for ideal incorporation of dUTP by DNA polymerases. Use 1.0µl per 50µl reaction.