

dNTP Mix, 100mM

Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX051
Batch No.:	See vial
Concentration:	100 mM

Store at -20 °C



Storage and stability:

dNTP Mix, 100mM is shipped on dry or blue ice. On arrival store at -20 °C for optimum stability. Repeated freeze/thaw cycles should be avoided. Thawing during transportation does not affect the product performance. For long-term storage, aliquoting is recommended.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Safety precautions:

Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality control:

Bioline operates under ISO 13485 Quality Management System. dNTP Mix, 100mM and its components are extensively tested for activity, processivity, efficiency, heat activation, sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

Notes:

This reagent has been manufactured under 13485 Quality Management System and is suitable for further manufacturing use as an IVD component.

Description

A ready-to-use sequencing grade ultra-pure dNTP mix containing dATP, dGTP, dCTP, and dTTP, supplied as lithium salts in purified water at pH 7.5. The 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 (>99% purity determined by quantitative HPLC).

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.

Kit components

Table 1

Component
dNTP Mix (100mM total)

dNTP Characteristics

Table 2

	Molecular weight	λ max pH 7.0	ϵ at λ max
dATP	514.9 g/mol	259 nm	15.4 E x mmol ⁻¹ x cm ⁻¹
dCTP	490.9 g/mol	272 nm	9.1 E x mmol ⁻¹ x cm ⁻¹
dGTP	530.9 g/mol	252 nm	13.7 E x mmol ⁻¹ x cm ⁻¹
dTTP	505.9 g/mol	267 nm	9.6 E x mmol ⁻¹ x cm ⁻¹

See individual dNTPs for a full list of characteristics

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

Related Products	Cat. No.
dATP, 100mM	MDX046
dCTP, 100mM	MDX047
dGTP, 100mM	MDX048
dTTP, 100mM	MDX049
dUTP, 100mM	MDX059
dNTP Set, 100mM	MDX050
dNTP Mix, 40mM	MDX057
dUTP Mix, 100mM	MDX058
Low DNA Taq HS 5 U/ μ L	MDX009

Bioline Reagents Ltd
UNITED KINGDOM

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

Bioline USA Inc.
USA

Tel: +1 901 382 8716
Fax: +1 901 382 0027

Bioline GmbH
GERMANY

Tel: +49 (0)337 160222 00
Fax: +49 (0)3371 60222 01

Bioline (Aust) Pty. Ltd
AUSTRALIA

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

Bioline France
FRANCE

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10