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DNTP Sets

dNTP Mix, ready-to-use. Available in 10mM, 40mM and 100mM concentrations.

Catalogue Numbers:

DNTP-M500 1 x 500ul (40mM Total)

Features

- Convenient, pre-optimized and pre-mixed
- Ultra-pure: >99% triphosphate by HPLC
- Extended shelf-life of 24 months at -20°C
- Free from PCR inhibitors
- DNase, RNase and Nickase free
- Manufactured in a purpose-built facility

Applications

Suitable for a wide variety of applications such as:

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

Description

A set of ready-to-use molecular grade dNTP solutions consisting of 4 separate 100mM solutions of dATP, dGTP, dCTP, and dTTP, at pH 7.5 and supplied as lithium salts in purified water. For use in DNA polymerization reactions, DNA labeling and sequencing processes. Dependable PCR grade.

Improved Stability and Extended Shelf Life All Phenix 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

A mix of dATP, dCTP, dGTP, and dTTP, (pH 7.5).

Storage Conditions:

dNTP Mix can be stored for 24 months at -20°C. Avoid multiple freeze/thaw cycles. For long-term storage, 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:

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

dNTP Characteristics:

dNTP's	Mol. Wt	Molar Extinction (1umol)
dATP	514.9	15.4 (A_{259})
dGTP	530.9	13.7 (A_{252})
dCTP	490.9	9.1 (A_{272})
dTTP	505.9	9.6 (A_{267})

dNTP Mix Reaction Guidelines

100mM Mix contains 25 mM of each dNTP

Reaction Volume	Master Mix	Reactions
50µl	0.5µl	1000

40mM Mix contains 10 mM of each dNTP

Reaction Volume	Master Mix	Reactions
50µl	1.25µl	400

10mM Mix contains 2.5 mM of each dNTP

Reaction Volume	Master Mix	Reactions
50µl	5.0µl	200

This is a guide only, for long-range applications adjust accordingly.