

Product:

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

Cat. No.

| Cat.No. | Products | Final Conc. | Presentation |
|---------|------------------------|-------------|--------------|
| EA31100 | dATP, 100mM solution | 100mM | 1 x 1mL |
| EA32100 | dCTP, 100mM solution | 100mM | 1 x 1mL |
| EA33100 | dGTP, 100mM solution | 100mM | 1 x 1mL |
| EA34100 | dTTP, 100mM solution | 100mM | 1 x 1mL |
| EA35100 | dNTP Master Mix, 100mM | 100mM | 1 x 1mL |
| EA35140 | dNTP Set, 100mM each | 100mM | 4 x 1mL |
| EA36100 | dNTP Master Mix, 10mM | 10mM | 1 x 1mL |

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 by PhileKorea 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 ready-to-use molecular grade dNTP Mix containing dATP, dCTP, dGTP and dTTP at pH 7.5 as Lithium salts in purified water. The mix is designed to save hands-on time for researchers and minimize the possibility of contamination. For use in DNA polymerization reactions, DNA labeling and sequencing processes. Dependable PCR grade.

Improved Stability and Extended Shelf-Life

All 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.

dNTP Mix Reaction Guidelines

100mM Mix contains 25 mM of each dNTP

| | | |
|-----------------|------------|-----------|
| Reaction Volume | Master Mix | Reactions |
| 50µl | 0.5µl | 1000 |

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.

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:

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

dNTP Characteristics:

| dNTPs | Mol. Wt | Molar Extinction(1µmol) |
|-------|---------|--------------------------|
| 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) |

Notes

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

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