

[Cat. No.] **D-3001**

Introduction

10 mM dNTP (each 2.5 mM) is a ready-to-use mixture including dATP, dCTP, dGTP, and dTTP in the same ratio. Highly purified dNTPs are required for reproducible results and this product represents a more than 98% purity. It also simplifies preparation of dNTP mixture and provides reduced pipetting errors and reaction set up errors. This product is compatible with all BIONEER's DNA polymerase and can be applied to various molecular biology experiments.

Applications

- Standard PCR, RT-PCR, Real-time PCR
- cDNA synthesis
- Long-range PCR, Multiplex PCR, High fidelity PCR
- DNA sequencing and labeling

Composition

dATP-Na ₄	
Description	2'-Deoxyadenosine 5'- triphosphate, tetrasodium salt
Formula	C ₁₀ H ₁₂ N ₅ O ₁₂ P ₃ Na ₄
Molecular weight	579.13 g/mol
Concentration	2.5 mM, pH 7.0 (Purity > 98%)
dCTP-Na ₄	
Description	2'-Deoxycytidine 5'- triphosphate, tetrasodium salt
Formula	C ₉ H ₁₂ N ₃ O ₁₃ P ₃ Na ₄
Molecular weight	555.11 g/mol
Concentration	2.5 mM, pH 7.0 (Purity > 98%)
dGTP-Na ₄	
Description	2'-Deoxyguanosine 5'- triphosphate, tetrasodium salt
Formula	C ₁₀ H ₁₂ N ₅ O ₁₃ P ₃ Na ₄
Molecular weight	595.18 g/mol
Concentration	2.5 mM, pH 7.0 (Purity > 98%)
dTTP-Na ₄	
Description	2'-Deoxythymidine 5'- triphosphate, tetrasodium salt
Formula	C ₁₀ H ₁₃ N ₂ O ₁₄ P ₃ Na ₄
Molecular weight	570.10 g/mol
Concentration	2.5 mM, pH 7.0 (Purity > 98%)

* **Note:** For research use only. Not for use in diagnostic or therapeutic procedures.

Specifications

10 mM dNTP (each 2.5 mM)	
Formulation	Solution
Concentration	10 mM (each 2.5 mM)

Storage Buffer

10 mM dNTP is supplied in nuclease-free water.

Quality Control

- Functional test: PCR amplification of 1 kb fragment with *Top* DNA polymerase from series of Lambda DNA (& Human DNA) dilutions.

Storage

- Store at -20°C. If stored in the recommended temperature, this product will be stable until the expiration date printed out on the label.
- Avoid repeated freeze and thaw cycles and recommended to store in small aliquots.

Online Resources



Korean



English

Visit our [product page](#) for additional information and protocols.

Ordering Information

Description		Cat. No
10 mM dNTP (each 2.5 mM)	1 ml	D-3001

Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

Explanation of Symbols



Batch Code



Catalog Number



Caution



Consult Instructions for Use



Contains Sufficient for <n> tests



Research Use Only



Temperature Limitation



Use-by Date