

DATA SHEET

Version: 2
Revision date: 10/03/23

1. Identification

Product name TruePure™ dNTP Set
4 x 1 mL, 100 mM

Cat. No N0098-L

2. Description

dNTP set includes separate vials of each dNTP (dATP, dCTP, dGTP, dTTP).
Each dNTP are in aqueous solution at 100 mM.

3. Specifications

dATP

Formula: C₁₀H₁₆N₅O₁₂P₃
Molecular Weight: 491.18 g/mol
λ_{max} pH 7.0 = 259 nm
ε at λ_{max}, pH 7.0 = 15.4 mmol⁻¹ cm⁻¹
Concentration: 100 mM
Purity: > 99% confirmed by HPLC

dCTP

Formula: C₉H₁₆N₃O₁₃P₃
Molecular Weight: 467.15 g/mol
λ_{max} pH 7.0 = 271 nm
ε at λ_{max}, pH 7.0 = 8.9 mmol⁻¹ cm⁻¹
Concentration: 100 mM
Purity: > 99% confirmed by HPLC

dGTP

Formula: C₁₀H₁₆N₅O₁₃P₃
Molecular Weight: 507.18 g/mol
λ_{max} pH 7.0 = 252 nm
ε at λ_{max}, pH 7.0 = 13.7 mmol⁻¹ cm⁻¹
Concentration: 100 mM
Purity: > 99% confirmed by HPLC

dTTP

Formula: C₁₀H₁₇N₂O₁₄P₃
Molecular Weight: 482.17 g/mol
λ_{max} pH 7.0 = 267 nm
ε at λ_{max}, pH 7.0 = 9.6 mmol⁻¹ cm⁻¹
Concentration: 100 mM
Purity: > 99% confirmed by HPLC

Quality Control Specifications:

- 18 kb long range PCR (template dilution series from 20 to 1000 pg): suitable
- Contamination with bacterial and human DNA: not detectable
- Activity of DNase, Protease or Phosphatase: not detectable

4. Storage specifications

Store at -20°C, short term (up to one week) exposure to ambient temperature is possible.

5. Applications

For use in all molecular biology applications, including PCR, real-time PCR, high fidelity and long PCR, cDNA synthesis, RT-PCR, and DNA sequencing.

The synthesis of a complementary DNA/cDNA strand by enzymatic polymerization of deoxynucleotide triphosphates (dNTPs) is the basic principle of DNA amplification, sequencing and cDNA synthesis techniques.

6. Further information

Product Use Limitations Disclaimer

This product is developed, designed, and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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