

DATA SHEET

Version: 2
Revision date: 12/04/2023

1. Identification

Product name	TruePure™ dTTP (100mM)
	0.4 mL
Cat. No	No096

2. Description

Ultrapure dTTP supplied as clear aqueous solution (pH 8.5).

3. Specifications

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

Purity: > 99% confirmed by HPLC

Quality Control Specifications:

- 18 kb long range PCR (template dilution series): 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:

- PCR
- Real-time PCR
- High fidelity and long PCR
- cDNA synthesis
- RT-PCR
- 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	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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