

# DATA SHEET

Version: 2  
Revision date: 12/06/2023

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## 1. Identification

<b>Product name</b>	<b>TruePure™ dCTP (100mM)</b>
	0.4 mL
<b>Cat. No</b>	<b>No094</b>

## 2. Description

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

## 3. Specifications

**Formula:** C<sub>9</sub>H<sub>16</sub>N<sub>3</sub>O<sub>13</sub>P<sub>3</sub>

**Molecular Weight:** 467.15 g/mol

**λ<sub>max</sub> pH 7.0** = 271 nm

**ε at λ<sub>max</sub>, pH 7.0** = 8.9 mmol<sup>-1</sup> cm<sup>-1</sup>

**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

<b>Product Use Limitations</b>	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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