DATA SHEET

Jena Bioscience

# dCTP - Solution

100 mM Sodium salt solution

| Cat. No. | Amount |
|---|---|
| NU-1002L | 1 ml (100 mM) |
| NU-1002-10ML | 10 ml (100 mM) |
| NU-1002-100ML | 100 ml (100 mM) |
| NU-1002-200ML | 200 ml (100 mM) |

**For general laboratory use.**

**Shipping:** shipped on gel packs

**Storage Conditions:** store at -20 °C

**Shelf Life:** 12 months

**Molecular Formula:** $C_9H_{16}N_3O_{13}P_3$ (free acid)

**Molecular Weight:** 467.15 g/mol (free acid)

**CAS#:** 102783-51-7

**Purity:** ≥ 99 % (HPLC)

**Form:** clear aqueous solution

**Concentration:** 100 mM - 110 mM

**pH:** 8.5 ±0.2 (22 °C)

**Spectroscopic Properties:** $\lambda_{max}$ 271 nm, ε 8.9 L $mmol^{-1}$ $cm^{-1}$ (Tris-HCl pH 7.5)

**Description:**
dCTP, PCR-grade is supplied as ultrapure aqueous solution (pH 8.5) and suitable for all molecular biology applications including PCR/qPCR, reverse transcription, DNA labeling and DNA sequencing.

**Selected References:**

Erlich *et al.* (1988) Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science* **29 (239)**:487.

Holland *et al.* (1991) Detection of specific polymerase chain reaction product by utilizing the 5'—-3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *Proc. Natl. Acad. Sci. USA* **88 (16)**:7276.

Sanger *et al.* (1977) DNA sequencing with chain-terminating inhibitors. *Proc. Natl. Acad. Sci. USA* **74**:5463.