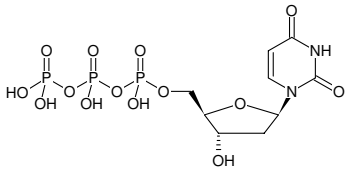
DATA SHEET

Jena Bioscience

dUTP - Solution

100 mM Sodium salt solution

Cat. No.	Amount
NU-1008L	1 ml (100 mM)
NU-1008-10ML	10 ml (100 mM)
NU-1008-100ML	100 ml (100 mM)



Structural formula of dUTP - Solution

For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible. If stored as recommended, Jena Bioscience guarantees optimal performance of this product for 12 months after date of delivery.

Shelf Life: 12 months

Molecular Formula: $C_9H_{15}N_2O_{14}P_3$ (free acid)

Molecular Weight: 468.14 g/mol (free acid)

CAS#: 102814-08-4

Purity: ≥ 99 % (HPLC)

Form: clear aqueous solution

Concentration: 100 mM - 110 mM

pH: 8.5 ±0.2 (22 °C)

Spectroscopic Properties: λ_{max} 262 nm, ε 9.8 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.0)

Description:
dUTP, 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:

Tóth *et al.* (2007) Kinetic Mechanism of Human dUTPase, an Essential Nucleotide Pyrophosphatase Enzyme. *J. Biol. Chem.* **282 (46)**:33572.

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.