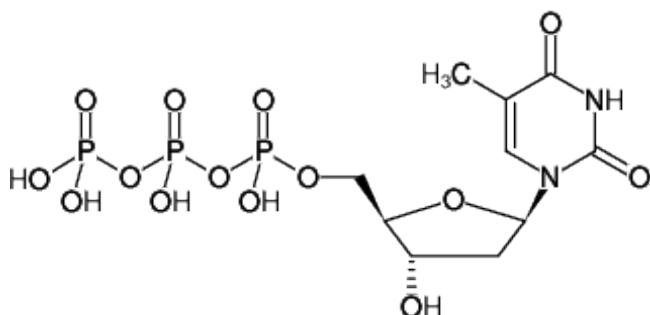



dTTP - Lithium salt solution

2'-Deoxythymidine-5'-triphosphate, Lithium salt

Cat. No.	Amount
DTTP_LI_100ML	100 ml (100 mM)



Structural formula of dTTP - Lithium salt solution

For in vitro use only!
Shipping: shipped on blue ice

Storage Conditions: store at -20 °C

Additional Storage Conditions: Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 24 months from certification date

Molecular Formula: C₁₀H₁₇N₂O₁₄P₃ (free acid)

Molecular Weight: 482.17 g/mol (free acid)

Purity: ≥ 99.0 % (HPLC)

Form: clear aqueous solution

Concentration: 100 mM - 110 mM

pH: 8.5 ± 0.2 (22 °C)

Spectroscopic Properties: λ_{max} 267 nm, ε 9.6 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.0)

Description:

dTTP, 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.

Quality Control Specifications:

 Low Copy Long Range PCR (18 kb, lambda DNA, template dilution series): PCR fragment with 50 pg of template or less
 RT-PCR (749 bp fragment, human GAPDH gene, template dilution series): PCR fragment with 10 pg of template or less
 Contamination with bacterial or human DNA: not detectable
 DNases, RNases, Nicking Activity: not detectable
 Proteases: not detectable

Selected References:

- 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.
- Erllich *et al.* (1988) Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science* **29** (239):487.
- Sanger *et al.* (1977) DNA sequencing with chain-terminating inhibitors. *Proc. Natl. Acad. Sci. USA* **74**:5463.