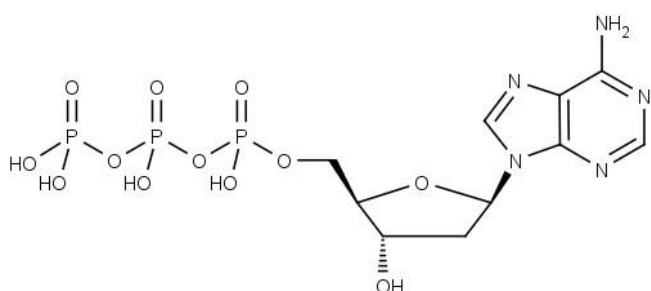


dATP

2'-Deoxyadenosine 5'-triphosphate, 100 mM lithium salt solution

| | Cat. No. | Volume | Amount |
|--|----------------|---------|----------|
| | DATP_LI_100ML | 100 ml | 10 mmol |
| | DATP_LI_1000ML | 1000 ml | 100 mmol |



For *in vitro* use only

Quality guaranteed for 12 months

Store at -20°C, short term (up to one week) exposure to ambient temperature possible

Concentration

100-110 mM

Form

clear aqueous solution

pH

8.5 ± 0.2 (22 °C)

Purity

≥ 99 % (HPLC)

Molecular Formula

C₁₀H₁₆N₅O₁₂P₃ (free acid)

Molecular Weight

491.18 (free acid)

Absorbance

absorbance max: 259 nm (pH 7)

ε at absorbance max: 15.4 mmol⁻¹ cm⁻¹

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

Description

dATP, 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

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

[2] Gelfand *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.

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