

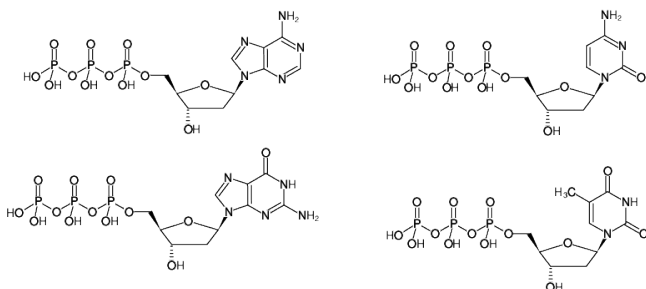


dNTP Mix - 25 mM Solution

Equimolar Mix of 25 mM dATP, dCTP, dGTP and dTTP

2'-Deoxyadenosine-5'-triphosphate, Sodium salt, 2'-Deoxycytidine-5'-triphosphate, Sodium salt, 2'-Deoxyguanosine-5'-triphosphate, Sodium salt, 2'-Deoxythymidine-5'-triphosphate, Sodium salt

Cat. No.	Amount
DMIX25_200UL	200 µl (4 x 2.5 mmol)
DMIX25_1ML	1 ml (4 x 2.5 mmol)
DMIX25_5ML	5 ml (4 x 2.5 mmol)
DMIX25_10ML	10 ml (4 x 2.5 mmol)
DMIX25_50ML	50 ml (4 x 2.5 mmol)
DMIX25_100ML	100 ml (4 x 2.5 mmol)



Structural formula of dNTP Mix - 25 mM 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: dATP: C₁₀H₁₆N₅O₁₂P₃ (free acid)

dCTP: C₉H₁₆N₃O₁₃P₃ (free acid)

dGTP: C₁₀H₁₆N₅O₁₃P₃ (free acid)

dTTP: C₁₀H₁₇N₂O₁₄P₃ (free acid)

Molecular Weight: dATP: 491.18 g/mol (free acid)dCTP: 467.15 g/mol (free acid)dGTP: 507.18 g/mol (free acid)dTTP: 482.17 g/mol (free acid)

Purity: ≥ 99.0 % (HPLC)

Form: clear aqueous solution

pH: 8.5 ±0.2 (22 °C)

Applications:

For standard PCR applications a final concentration of 200 µM each dNTP is recommended.

Description:

dNTP Mix is an equimolar mixture of ultrapure dATP, dCTP, dGTP, and dTTP supplied as clear 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
RT-PCR (749 bp fragment, human GAPDH gene, template dilution series): PCR fragment with 10 pg of template
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.

Erlich *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.