DATA SHEET

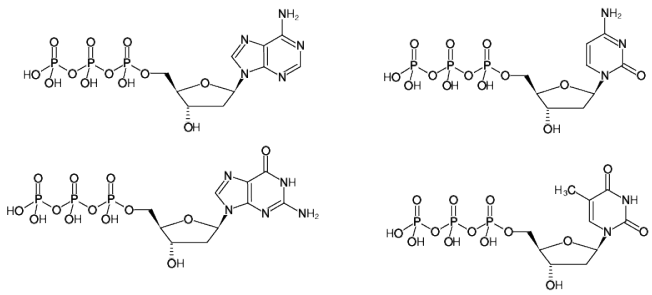
LAROVA
The Nucleotide Company

dNTP Mix - 10 mM Solution

Equimolar Mix of 10 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
DMIX10_200UL	200 µl (4 x 10 mM)
DMIX10_1ML	1 ml (4 x 10 mM)
DMIX10_10ML	10 ml (4 x 10 mM)
DMIX10_100ML	100 ml (4 x 10 mM)



Structural formula of dNTP Mix - 10 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: $C_{10}H_{16}N_5O_{12}P_3$ (free acid)
dCTP: $C_9H_{16}N_3O_{13}P_3$ (free acid)
dGTP: $C_{10}H_{16}N_5O_{13}P_3$ (free acid)
dTTP: $C_{10}H_{17}N_2O_{14}P_3$ (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 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.

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.