

Interchim provides high quality nucleotides :

- ◆ Conventional nucleotides for PCRs and sequencing
- ◆ Fluorescent labeled nucleotides
- ◆ Specialized nucleotides (cyclic, ...)

See also Non-hydrolysable nucleotides in page D112

Nucleotides, sets and mixes

Deoxynucleotides sets

Nucleotides solutions, Sets

dNTPs solutions are prepared with UltraPure nucleotides in reproducible sets (100 µM concentration), and in ready to use mixtures (at 10 mM and 2 mM concentrations).
Store at -20°C

-	Formula	MW	λ max (pH 7.0)	ε at λmax	pH of solution	Purity
dATP-Na ₄	C ₁₀ H ₁₂ N ₅ O ₁₂ P ₃ Na ₄	579.13	259 nm	15.4 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dGTP-Na ₄	C ₁₀ H ₁₂ N ₅ O ₁₃ P ₃ Na ₄	595.18	252 nm	13.7 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dCTP-Na ₄	C ₉ H ₁₂ N ₅ O ₁₂ P ₃ Na ₄	555.11	272 nm	9.1 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dTTP-Na ₄	C ₁₀ H ₁₃ N ₅ O ₁₄ P ₃ Na ₄	570.10	267 nm	9.6 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dATP-Na ₄	C ₁₀ H ₁₂ N ₅ O ₁₂ P ₃ Na ₄	579.13	259 nm	15.4 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dGTP-Na ₄	C ₁₀ H ₁₂ N ₅ O ₁₃ P ₃ Na ₄	595.18	252 nm	13.7 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dCTP-Na ₄	C ₉ H ₁₂ N ₅ O ₁₂ P ₃ Na ₄	555.11	272 nm	9.1 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%
dUTP-Na ₄	C ₉ H ₁₁ N ₂ O ₁₄ P ₃ Na ₄	556.10	262 nm	10.2 E x mmol ⁻¹ x cm ⁻¹	7.0	> 98%

dNTP Set1

(100 mM of dATP, dGTP, dCTP, dTTP)

- ◆ dNTPs are used as substrates for sequencing DNA by method of Sanger^(1,2).
- ◆ dNTPs are used as substrates for PCR^(3,4).

Literature :

- (1) Sanger, F., Nicklen, S., and Coulson, A.R., Proc.Natl.Acad. Sci. USA, 74, 5463 (1977)
- (2) Biggin, M.D., Gibson, T.G., and Hong, G.F., Proc.Natl.Acad.Sci. USA, 80, 3963 (1983)
- (3) Mullis, K.B., and Faloona, F.A., Methods Enzymol. 155, 335 (1987)
- (4) Newton, C.R., and Graham, A., PCR Spectrum Akad. Verlag Heidelberg (1997).

dNTP Set2

(100 mM of dATP, dGTP, dCTP, dUTP)

dNTPs are used as substrates for PCR^(1,2).

Literature :

- (1) Mullis, K.B., and Faloona, F.A., Methods Enzymol. 155, 335 (1987)
- (2) Newton, C.R., and Graham, A., PCR Spectrum Akad. Verlag Heidelberg (1997).

Description	Cat.#	Qty
dNTP Set1 (100mM of dATP, dGTP, dCTP, dTTP)	UP968640	4 x 25 µmol
	UP968641	20 x 25 µmol
dNTP Set2 (100mM of dATP, dGTP, dCTP, dUTP)	UP968660	4 x 25 µmol
	UP968661	20 x 25 µmol

Nucleotides solutions, Mix

Mix PCR 1

(2 mM of dATP, dGTP, dCTP, dTTP)

Ready-to-use dNTP mixture for :

- ◆ UptiTherm DNA Polymerase
- ◆ Taq DNA polymerase ⁽¹⁾.

pH : 7.0

Purity >98%

Literature :

- (1) De Noronha, C., and Mullins, J., PCR Methods and applications 2, 131-136 (1992)

See also polymerase Master Mixes (page D21)