



dNTPs Set disodium salt - solution

4 x 25µmoles – Code# EMR276425

PRODUCT DESCRIPTION:

Ultrapure dNTPs-Set, 2'-Deoxynucleoside 5'-triphosphates, disodium salt.

PHYSICAL CONSTANTS, SPECTRAL AND CHROMATOGRAPHIC ANALYSIS

	dATP-Na ₂	dGTP-Na ₂	dCTP-Na ₂	dTTP-Na ₂
Formula	C ₁₀ H ₁₂ N ₅ O ₁₂ P ₃ Na ₂	C ₁₀ H ₁₂ N ₅ O ₁₃ P ₃ Na ₂	C ₉ H ₁₂ N ₃ O ₁₃ P ₃ Na ₂	C ₁₀ H ₁₃ N ₂ O ₁₄ P ₃ Na ₂
Molecular weight	579.13 g/mol	595.18 g/mol	555.11 g/mol	570.10 g/mol
λ_{max} (pH 7.5)	259 nm	252 nm	272 nm	267 nm
ε at λ_{max}	15.4 E x mmol ⁻¹ x cm ⁻¹	13.7 E x mmol ⁻¹ x cm ⁻¹	9.1 E x mmol ⁻¹ x cm ⁻¹	9.6 E x mmol ⁻¹ x cm ⁻¹
Concentration	100 mM	100 mM	100 mM	100 mM
Amount	25 µmoles	25 µmoles	25 µmoles	25 µmoles
pH of solution	7.5	7.5	7.5	7.5
Purity	> 98%	> 98%	> 98%	> 98%

STORAGE & STABILITY:

Two years at – 20°C

APPLICATIONS:

dNTPs are used as substrates for sequencing DNA by the method of Sanger 1, 2.

dNTPs are used as substrates for PCR 3, 4.

REFERENCES:

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2. Sanger, F., Nicklen, S. and Coulson, A.R., Proc. Natl. Acad. Sci. USA, **74**, 5463 (1977).
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).

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