

DATA SHEET

ddNTP Set

Product: Set of ddATP, ddCTP, ddGTP, ddTTP

Ordering Information

Cat.-No.	Volume	Amount	Conc.
NU-1019S	4 x 200 µl	4 x 2 µmol	10 mM each (ddATP, ddCTP, ddGTP, ddTTP)
NU-1019L	4 x 1 ml	4 x 10 µmol	10 mM each (ddATP, ddCTP, ddGTP, ddTTP)

Quality Control Assays

Functional Assays	Specification
Sequencing DNA by the method of Sanger	suitable
Detection of DNase, RNase, Protease, Phosphatase	no activity detected
Physical Assays	Specification
Concentration	10-11 mM
Purity by HPLC	>98%
pH	8.0 ±0.2

Physical Constants

	ddATP	ddCTP	ddGTP	ddTTP
Formula	C ₁₀ H ₁₃ N ₅ O ₁₁ P ₃	C ₉ H ₁₃ N ₃ O ₁₂ P ₃	C ₁₀ H ₁₃ N ₅ O ₁₂ P ₃	C ₁₀ H ₁₄ N ₂ O ₁₃ P ₃
Molecular Weight	472.16 g/mol (Anion)	448.13 g/mol (Anion)	488.16 g/mol (Anion)	463.14 g/mol (Anion)
Absorbance				
Absorbance max	259 nm (pH 7)	271 nm (pH 7)	252 nm (pH 7)	267 nm (pH 7)
ε at absorbance max	15.1 mmol ⁻¹ cm ⁻¹	8.9 mmol ⁻¹ cm ⁻¹	14.2 mmol ⁻¹ cm ⁻¹	9.5 mmol ⁻¹ cm ⁻¹