

Product Datasheet

dNTP Bundle (orb65049)

Description	dNTP Bundle contains four separate solutions of ultrapure dATP, dCTP, dGTP and dTTP supplied as clea...
Form/Appearance	clear aqueous solution; pH: 8.5 ± 0.2 (22 °C)
Concentration	100 mM-110 mM
Storage	store at -20 °C
Note	For research use only
Application notes	Spectroscopic Propertie: dATP: λ _{max} 259 nm, ε 15.1 L mmol ⁻¹ cm ⁻¹ , (Tris-HCl pH 7.0), dCTP: λ _{max} 271 nm, ε 8.9 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.0), dGTP: λ _{max} 252 nm, ε 14.2 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.0), dTTP: λ _{max} 267 nm, ε 9.5 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.0).
Formula	dATP: C ₁₀ H ₁₆ N ₅ O ₁₂ P ₃ ; dCTP: C ₉ H ₁₆ N ₃ O ₁₃ P ₃ ; dGTP: C ₁₀ H ₁₆ N ₅ O ₁₃ P ₃ ; dTTP: C ₁₀ H ₁₇ N ₂ O ₁₄ P ₃
Purity	≥ 99% (HPLC)
MW	Theoretical MW: 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)
SMILES	Nc1c2c(ncn2)[C@@H]2O[C@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C2)ncn1.OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@H](C[C@@H]1O)n1c2nc([nH]c(=O)c2nc1)N.OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@H](C[C@@H]1O)n1ccc(nc1=O)N.OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@H](C[C@@H]1O)n1c(=O)[nH]c(=O)c(c1)C
Expiration Date	12 months from date of receipt.