

Certificate of dGTP Analysis

Product :	2'-Deoxyguanosine-5'-Triphosphate, Sodium Salt (dGTP) Sequenase and PCR Qualified
Storage Recommendations:	Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.
Long term (Infrequent use: 1-2 times per month):	-70°C
Daily/Weekly use:	-20°C
Molecular Formula:	C ₁₀ H ₁₂ N ₅ O ₁₃ P ₃ Na ₄
Molecular Weight:	595. 1
Form:	Aqueous solution, 100mM
Purity (HPLC):	>99.8%
λ_{max}:	253nm _± 2nm
Absorbance Ratios (pH 7.0):	A ₂₅₀ /A ₂₆₀ 1.15 _± 0.03
	A ₂₈₀ /A ₂₆₀ 0.67 _± 0.03
PH:	7.5 ± 0.1
Quality control:	<ol style="list-style-type: none"> 1. The concentration is verified by optical density spectrophotometry. 2. This preparation is free of DNase and RNase contamination as determined by incubation of the 4 dNTPs with radioactive substrates. 3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99.8%. 4. This lot of dNTPs has been performance tested with Sequenase, <i>Taq</i> DNA polymerase, <i>Pfu</i> DNA polymerase and <i>T7</i> DNA polymerase.
	