



Certificate of dTTP Analysis

Product :	2' -Deoxythymidine -5' -Triphosphate, Sodium Salt (dTTP) 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 ₁₃ N ₂ O ₁₄ P ₃ Na ₄
Molecular Weight:	570.1
Form:	Aqueous solution, 100mM
Purity (HPLC):	>99.8%
λmax:	267nm ± 2nm
Absorbance Ratios (pH 7.0):	A250/A260 0.65 ± 0.03
	A280/A260 0.73 ± 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.