

# Certificate of Analysis

<b>Product :</b>	<b>2'-Deoxyuridine-5'-Triphosphate, Sodium Salt (dUTP)</b> Sequenase and PCR Qualified
<b>Storage Recommendations:</b>	Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.
<b>Long term (Infrequent use: 1-2 times per month):</b>	-70°C
<b>Daily/Weekly use:</b>	-20°C
<b>Molecular Formula:</b>	$C_9H_{11}N_2O_{14}P_3Na_4$
<b>Molecular Weight:</b>	556.1
<b>Form:</b>	Aqueous solution, 100mM
<b>Purity (HPLC):</b>	>99.8%
<b><math>\lambda_{max}</math>:</b>	267nm $\pm$ 2nm
<b>Absorbance Ratios (pH 7.0):</b>	A250/A260 0.73 $\pm$ 0.03
	A280/A260 0.38 $\pm$ 0.03
<b>PH:</b>	7.5 $\pm$ 0.1
<b>Quality control:</b>	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.



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