



# Certificate of dGTP Analysis

<b>Product :</b>	<b>2'-Deoxyguanosine-5'-Triphosphate, Sodium Salt (dGTP)</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 <sub>10</sub> H <sub>12</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub> Na <sub>4</sub>
<b>Molecular Weight:</b>	595. 1
<b>Form:</b>	Aqueous solution, 100mM
<b>Purity (HPLC):</b>	>99.8%
<b>λmax:</b>	253nm <sub>±</sub> 2nm
<b>Absorbance Ratios (pH 7.0):</b>	A250/A260 1.15 <sub>±</sub> 0.03
	A280/A260 0.67 <sub>±</sub> 0.03
<b>PH:</b>	7.5 ± 0.1
<b>Quality control:</b>	<ol style="list-style-type: none"> <li>The concentration is verified by optical density spectrophotometry.</li> <li>This preparation is free of DNase and RNase contamination as determined by incubation of the 4 dNTPs with radioactive substrates.</li> <li>The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99.8%.</li> <li>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.</li> </ol>