

# Certificate of Analysis

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| <b>Product :</b>  | <b>2'-Deoxyadenosine -5'-Triphosphate, Sodium Salt (dATP)</b><br>Sequenase and PCR Qualified   |
| <b>Storage Recommendations:</b>                         | Always avoid freeze-thaw cycles or exposure to frequent temperature changes.<br>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>12</sub> P <sub>3</sub> Na <sub>4</sub>  |
| <b>Molecular Weight:</b>                                | 579.2  |
| <b>Form:</b>  | Aqueous solution, 100mM  |
| <b>Purity (HPLC):</b>                                   | >99.8%   |
| <b>λmax:</b>  | 259nm ± 2nm  |
| <b>Absorbance Rations (pH 7.0):</b>                     | A250/A260 0.80±0.03  |
|   | A280/A260 0.15±0.03  |
| <b>PH:</b>  | 7.5 ± 0.1  |
| <b>Quality control:</b>                                 | <ol style="list-style-type: none"> <li>1. The concentration is verified by optical density spectrophotometry.</li> <li>2. This preparation is free of DNase and RNase contamination as determined by incubation of the 4 dNTPs with radioactive substrates.</li> <li>3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99.8%.</li> <li>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.</li> </ol> |



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