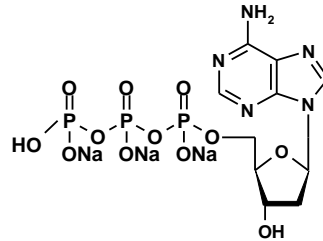


Certificate of Analysis (dATP, 100mM Solution)

Lot No. _____

Product Name 2'-Deoxyadenosine-5'-Triphosphate, Sodium Salt
Molecular Formula C₁₀H₁₃N₅Na₃O₁₂P₃
Molecular Weight 557.2
CAS Number 1927-31-7



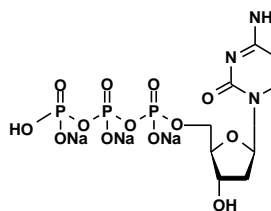
TEST	SPECIFICATION	RESULTS
Appearance	Clear Colorless Solution	Clear Colorless
Concentration	100mM ± 5%	101mM
Purity (HPLC)	≥99%	99.3%
λ_{max}	259nm ± 2nm	259nm
Absorbance Ratios (pH 7.0)	A250/A260 0.78 ± 0.03	0.77
pH (22~25°C)	A280/A260 0.15 ± 0.02	0.14
	7.0 ± 0.1	7.1
Quality control	1. The concentration is verified by optical density spectrophotometry. 2. This preparation is free of DNase and RNase contamination as determined by incubation of the dATP with radioactive substrates. 3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99%. 4. This lot of dATP has been performance tested with Taq DNA polymerase and Pfu DNA polymerase. 5. This lot of dATP has performance tested with Q-PCR and long PCR (30kb).	
Storage Recommendations	Long term (Infrequent use; 1-2 times per month): -70°C Daily/Weekly use: -20°C Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.	

The performance of this product is guaranteed for twelve months from the date of purchase.

Certificate of Analysis (dCTP, 100mM Solution)

Lot No. _____

Product Name 2'-Deoxycytidine-5'-Triphosphate, Sodium Salt
Molecular Formula C₉H₁₃N₃Na₃O₁₃P₃
Molecular Weight 533.1
CAS Number 102783-51-7



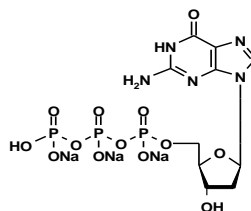
TEST	SPECIFICATION	RESULTS
Appearance	Clear Colorless solution	Clear Colorless
Concentration	100mM ± 5%	104mM
Purity (HPLC):	≥99%	99.7%
λ_{max}:	272nm ± 2nm	272nm
Absorbance Ratios (pH 7.0)	A250/A260 0.82 ± 0.03	0.81
pH (22~25°C)	A280/A260 0.98 ± 0.05	0.98
Quality control	7.0 ± 0.1	7.1
Storage Recommendations	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 dCTP with radioactive substrates. 3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99%. 4. This lot of dCTP has been performance tested with Taq DNA polymerase and Pfu DNA polymerase. 5. This lot of dCTP has performance tested with Q-PCR and long PCR (30kb). Long term (Infrequent use; 1-2 times per month): -70°C Daily/Weekly use: -20°C Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.	

The performance of this product is guaranteed for twelve months from the date of purchase.

Certificate of Analysis (dGTP, 100mM Solution)

Lot No. _____

Product Name	2'-Deoxyguanosine-5'-Triphosphate, Sodium Salt
Molecular Formula	C ₁₀ H ₁₃ N ₅ Na ₃ O ₁₃ P ₃
Molecular Weight	573.1
CAS Number	93919-41-6



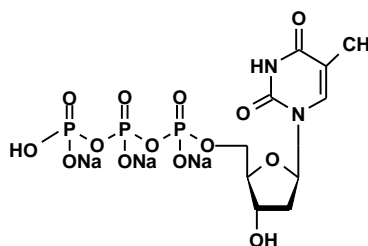
TEST	SPECIFICATION	RESULTS
Appearance	Clear Colorless solution	Clear Colorless
Concentration	100mM ± 5%	103mM
Purity (HPLC)	≥99%	99.3%
λ_{max}	253nm ± 2nm	253nm
Absorbance Ratios (pH 7.0)	A250/A260 1.15 ± 0.04	1.15
	A280/A260 0.66 ± 0.03	0.66
pH (22~25°C)	7.0 ± 0.1	7.1
Quality control	1. The concentration is verified by optical density spectrophotometry. 2. This preparation is free of DNase and RNase contamination as determined by incubation of the dGTP with radioactive substrates. 3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99%. 4. This lot of dGTP has been performance tested with Taq DNA polymerase and Pfu DNA polymerase. 5. This lot of dGTP has performance tested with Q-PCR and long PCR (30kb).	
Storage Recommendations	Long term (Infrequent use; 1-2 times per month): -70°C Daily/Weekly use: -20°C Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.	

The performance of this product is guaranteed for twelve months from the date of purchase.

Certificate of Analysis (dTTP, 100mM Solution)

Lot No. _____

Product Name 2'-Deoxythymidine-5'-Triphosphate, Sodium Salt
Molecular Formula C₁₀H₁₄N₂Na₃O₁₄P₃
Molecular Weight 548.1
CAS Number 18423-43-3



TEST	SPECIFICATION	RESULTS
Appearance	Clear Colorless solution	Clear Colorless
Concentration	100mM ± 5%	103mM
Purity (HPLC)	≥99%	99.8%
λ_{max}	267nm ± 2nm	267nm
Absorbance Ratios (pH 7.0)	A250/A260 0.65 ± 0.03	0.65
	A280/A260 0.74 ± 0.05	0.75
pH (22~25°C)	7.0 ± 0.1	7.1
Quality control	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 dTTP with radioactive substrates. 3. The purity of this preparation is determined by HPLC. The minimum passing specification for the triphosphate content is 99%. 4. This lot of dTTP has been performance tested with Taq DNA polymerase and Pfu DNA polymerase. 5. This lot of dTTP has performance tested with Q-PCR and long PCR (30kb). Long term (Infrequent use; 1-2 times per month): -70°C Daily/Weekly use: -20°C	
Storage Recommendations	Always avoid freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.	

The performance of this product is guaranteed for twelve months from the date of purchase.