

2'-Deoxyadenosine-5'-Triphosphate, Sodium Salt
Cat# NB-03-0191

CERTIFICATE OF ANALYSIS -dATP (100mM)

Product Name:	2'-Deoxyadenosine-5'-Triphosphate, Sodium Salt	Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₁₂ P ₃ Na ₃
Molecular Weight	557.2	CAS Number	1927-31-7
Batch No.:	003	Storage:	-20°C
Exp. Date:	Feb 20, 2014	Mfg. Date:	Feb 20, 2012

Test Items	Specifications	Results
Appearance	Clear colorless solution	Clear colorless solution
Concentration	100mM±5%	100mM
Purity (HPLC)	≥99%	99.2%
λ _{max}	259nm±2nm	259nm
Absorbance Ratios (pH 7.0)	A250/A260 0.78±0.03 A280/A260 0.15±0.02	0.78 0.14
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 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.

Storage Recommendation

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.

2'-Deoxycytidine-5'-Triphosphate, Sodium Salt
Cat# NB-03-0191

CERTIFICATE OF ANALYSIS -dCTP (100mM)

Product Name:	2'-Deoxycytidine-5'-Triphosphate, Sodium Salt	Molecular Formula:	C ₉ H ₁₃ N ₃ O ₁₃ P ₃ Na ₃
Molecular Weight	533.1	CAS Number	102783-51-7
Batch No.:	003	Storage:	-20°C
Exp. Date:	Feb 20, 2014	Mfg. Date:	Feb 20, 2012

Test Items	Specifications	Results
Appearance	Clear colorless solution	Clear colorless solution
Concentration	100mM±5%	100mM
Purity (HPLC)	≥99%	99.8%
λ _{max}	271nm ± 2nm	272nm
Absorbance Ratios (pH 7.0)	A250/A260 0.82 ± 0.03 A280/A260 0.98 ± 0.05	0.82 0.98
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 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.

Storage Recommendation

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.

2'-Deoxyguanosine-5'-Triphosphate, Sodium Salt
Cat# NB-03-0191

CERTIFICATE OF ANALYSIS -dGTP (100mM)

Product Name:	2'-Deoxyguanosine-5'-Triphosphate, Sodium Salt	Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₁₃ P ₃ Na ₃
Molecular Weight	573.2	CAS Number	93919-41-6
Batch No.:	003	Storage:	-20°C
Exp. Date:	Feb 20, 2014	Mfg. Date:	Feb 20, 2012

Test Items	Specifications	Results
Appearance	Clear colorless solution	Clear colorless solution
Concentration	100mM±5%	99mM
Purity (HPLC)	≥99%	99.5%
λmax	253nm ± 2nm	253nm
Absorbance Ratios (pH 7.0)	A250/A260 1.15 ± 0.04 A280/A260 0.66 ± 0.03	1.15 0.67
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.

Storage Recommendation

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.

2'-Deoxythymidine-5'-Triphosphate, Sodium Salt
Cat# NB-03-0191

CERTIFICATE OF ANALYSIS -dTTP (100mM)

Product Name:	2'-Deoxythymidine-5'-Triphosphate, Sodium Salt	Molecular Formula:	C ₁₀ H ₁₄ N ₂ O ₁₄ P ₃ Na ₃
Molecular Weight	548.1	CAS Number	18423-43-3
Batch No.:	003	Storage:	-20°C
Exp. Date:	Feb 20, 2014	Mfg. Date:	Feb 20, 2012

Test Items	Specifications	Results
Appearance	Clear colorless solution	Clear colorless solution
Concentration	100mM±5%	102mM
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.

Storage Recommendation

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.

For reference only

For Research Use Only. Not for Diagnostic or Therapeutic Use.