

Neoset dNTPs

#Cat: NB-60-0004 Size: 100mM

Description

Neoset dNTPs Set consists in a series of separate ready-to-use molecular grade dNTP solutions of dATP, dGTP, dCTP, and dTTP, at pH 8.5 (at 22 °C) and a 100 mM concentration. The dNTPs are supplied in a sodium salt solutionand may be used in DNA polymerization reactions, DNA labelling and sequencing processes.

Features

Ultra-pure: >99% trisphosphate by HPLC Extended shelf-life of 24 months at -20 °C

dNTPs Specifications

Free from PCR inhibitors DNase, RNase and Nickase free

Applications

Standard and long-range PCR cDNA synthesis Real-time PCR Microarrays DNA sequencing & DNA labelling

Storage conditions

Neoset dNTPs Set can be stored for 24 months at -20 °C. Avoid multiple freeze/thaw cycles. For long-term storage, aliquoting is highly recommended.

Storage conditions

4 °C to dry ice.



dNTPs Specifications

Product	dATP	dCTP	dGTP	dTTP
	100 mM, Sodium salt solution	100 mM, Sodium salt solution	100 mM, Sodium salt solution	100 mM, Sodium salt solution
Nomenclature	2'-deoxyadenosine-5'- triphosphate	2'-deoxycytidine-5'- triphosphate	2'-deoxyguanosine- 5'-triphosphate	2'-deoxythymidine-5'- triphosphate
Formula	C ₁₀ H ₁₃ N ₅ O ₁₂ P ₃	C9H13N3O13P3	C ₁₀ H ₁₃ N ₅ O ₁₃ P ₃	C10H14N2O14P3
Molecular weight	488.16 g mol ⁻¹	464.13 g mol ⁻¹	504.16 g mol ⁻¹	465.14 g mol ⁻¹
λ _{max} pH @ 7.0	259 nm	271 nm	252 nm	267 nm
ε at λ _{max} pH @ 7.0	15.1 E x mmol ⁻¹ .cm ⁻¹	8.9 E x mmol ⁻¹ .cm ⁻¹	14.2 E x mmol 1 .cm 1	9.5 E x mmol 1.cm 1
A ₂₅₀ /A ₂₆₀	0.78 ± 0.02	0.82 ± 0.02	1.15 ± 0.03	0.64 ± 0.02
A ₂₈₀ /A ₂₆₀	0.15 ± 0.02	0.97 ± 0.02	0.67 ± 0.02	0.74 ± 0.02
Concentration	100 mM ± 2%	100 mM ± 2%	100 mM ± 2%	100 mM ± 2%
Appearance	clear colourless	clear colourless	clear colourless	clear colourless
pH at 22 °C	8.5	8.5	8.5	8.5
dNTP (HPLC Area)	≥ 99%	≥ 99%	≥ 99%	≥ 99%
dNDP (HPLC Area)	<0.9%	<0.9%	<0.9%	<0.9%
dNMP (HPLC Area)	<0.5%	<0.5%	<0.5%	<0.5%
Dnases, RNases, Nicking activity	Negative	Negative	Negative	Negative
Proteases	Negative	Negative	Negative	Negative
Storage	At -20 °C	At -20 °C	At -20 °C	At -20 °C
Stability	24 months	24 months	24 months	24 months