



Certificate of Analysis

COA No: CA BN-0006

Version: 01

dATP 100mM

For Research Use Only

Storage Conditions: -20°C

Lot number: DA-313112

Expiry date: December 2015

Quality Control Parameters

2'-deoxyadenosine-5'-triphosphate



MW = 514.916 g /mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at λ_{max} , pH 7.0, $\epsilon = 15.4 \text{ E} \times \text{mmol}^{-1} \times \text{cm}^{-1}$)	100 mM \pm 5%	103.1mM
pH of Solution(at 20°C)	7.5 – 8.0	7.5
λ_{max} (at pH 7.0)	259 \pm 1 nm	260nm
A250/A260	0.78 \pm 0.03	0.78
A280/A260	0.15 \pm 0.02	0.13
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.8%
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

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Certificate of Analysis

COA No: CA BN-0006

Version: 01

Analysis	Specification	Result
Functional	A 3Kb Lambda DNA fragment is amplified with a dilution series of dATP, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.	Passed
DNase contamination	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 2.5×10^{-3} U DNase.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection 9.7×10^{-3} ng/ μ l RNase.	Passed

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Certificate of Analysis

COA No: CA BN-0007

Version: 02

dCTP 100mM

For Research Use Only

Storage Conditions: -20°C

Lot number: DC-913112

Expiry date: December 2015

Quality Control Parameters

2'-deoxycytidine-5'-triphosphate



MW = 490.891 g /mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at λ_{max} , pH 7.0, $\epsilon = 9.1 \text{ E} \times \text{mmol}^{-1} \times \text{cm}^{-1}$)	100 mM \pm 5%	102mM
pH of Solution(at 20°C)	7.5 – 8.0	7.5
λ_{max} (at pH 7.0)	272 \pm 1 nm	272nm
A250/A260	0.82 \pm 0.03	0.81
A280/A260	0.98 \pm 0.03	1.01
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.27%
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

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Certificate of Analysis

COA No: CA BN-0007

Version: 02

Analysis	Specification	Result
Functional	A 3Kb Lambda DNA fragment is amplified with a dilution series of dCTP, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.	Passed
DNase contamination	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 2.5×10^{-3} U DNase.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection 9.7×10^{-3} ng/ μ l RNase.	Passed

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Certificate of Analysis

COA No: CA BN-0008

Version: 02

dGTP 100mM

For Research Use Only

Storage Conditions:	-20°C
Lot number:	DG-213112
Expiry date:	December 2015

Quality Control Parameters

2'-deoxyguanosine-5'-triphosphate



MW = 530.916 g /mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at λ_{max} , pH 7.0, $\epsilon = 13.7 \text{ E x mmol}^{-1} \text{ x cm}^{-1}$)	100 mM \pm 5%	100mM
pH of Solution(at 20°C)	7.5 – 8.0	7.5
λ_{max} (at pH 7.0)	252 \pm 1 nm	252nm
A250/A260	1.16 \pm 0.05	1.15
A280/A260	0.66 \pm 0.03	0.67
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.51%
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

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Certificate of Analysis

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Version: 02

Analysis	Specification	Result
Functional	A 3Kb Lambda DNA fragment is amplified with a dilution series of dGTP, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.	Passed
DNase contamination	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 2.5×10^{-3} U DNase.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection 9.7×10^{-3} ng/ μ l RNase.	Passed

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Certificate of Analysis

COA No: CA BN-0009

Version: 02

dTTP 100mM

For Research Use Only

Storage Conditions:	-20°C
Lot number:	DT-913112
Expiry date:	December 2015

Quality Control Parameters

2'-deoxythymidine-5'-triphosphate



MW = 505.903 g /mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at λ_{max} , pH 7.0, $\epsilon = 9.5 \text{ E} \times \text{mmol}^{-1} \times \text{cm}^{-1}$)	100 mM \pm 5%	102mM
pH of Solution(at 20°C)	7.5 – 8.0	7.5
λ_{max} (at pH 7.0)	267 \pm 1 nm	267nm
A250/A260	0.65 \pm 0.03	0.62
A280/A260	0.73 \pm 0.02	0.75
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.72
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

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Certificate of Analysis

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Analysis	Specification	Result
Functional	A 3Kb Lambda DNA fragment is amplified with a dilution series of dTTP, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.	Passed
DNase contamination	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 2.5×10^{-3} U DNase.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection 9.7×10^{-3} ng/ μ l RNase.	Passed

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