



Certificate of Analysis

COA No: CA BN-0009

Version: 02

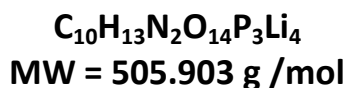
dTTP 100mM

For Research Use Only

Storage Conditions:	-20°C
Lot number:	DT:113H
Expiry date:	September 2016

Quality Control Parameters

2'-deoxythymidine-5'-triphosphate



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%	101.8 mM
pH of Solution(at 20°C)	7.5 – 8.0	7.6
λ_{max} (at pH 7.0)	267 \pm 1 nm	267 nm
A250/A260	0.65 \pm 0.03	0.63
A280/A260	0.73 \pm 0.02	0.73
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.78 %
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

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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

Authorised by Jade James

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