



## Certificate of Analysis

COA No: CA\_XBN-0002

Version: 06

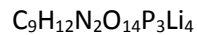
### dUTP 100mM

Suitable for Research and further Manufacturing Use as an IVD component

Catalog No:	BIO-39035
Lot No:	DS415-B067600
Shipping / Storage Conditions:	-20°C
Component Lot No:	DU-419102A
Expiry date:	March 2021

### Quality Control Parameters

2'-deoxyuridine-5'-triphosphate



MW = 492.884 g /mol

Certified &lt;1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at $\lambda_{\text{max}}$ , pH 7.0, $\epsilon = 10.0 \text{ E x mmol}^{-1} \text{ x cm}^{-1}$ )	100 mM $\pm$ 5%	101.5 mM
pH of Solution(at 20 °C)	7.5 – 8.0	7.5
$\lambda_{\text{max}}$ (at pH 7.0)	262 $\pm$ 1 nm	262 nm
A250/A260	0.75 $\pm$ 0.03	0.74
A280/A260	0.38 $\pm$ 0.02	0.35
dNTP (HPLC Area % at $\lambda_{\text{max}}$ )	$\geq$ 99%	$\geq$ 99.8%
dNDP + dAMP (HPLC Area % at $\lambda_{\text{max}}$ )	<1%	Passed
Appearance	Clear colourless solution	Passed

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Analysis	Specification	Result
Functional	A 800bp human genomic DNA fragment is amplified with a dilution series of dUTP, 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 $2.5 \times 10^{-3}$ 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 $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase.	Passed
Nicking Activity	Incubation of dUTP with supercoiled control plasmid. Analysed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid.	Passed

Authorised by Christopher Weatherall

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