



Certificate of Analysis

COA No: CA BN-0002

Version: 01

dUTP 100mM

For Research Use Only

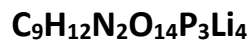
Storage Conditions: -20°C

Lot number: DU-418107A

Expiry date: August 2020

Quality Control Parameters

2'-deoxyuridine-5'-triphosphate



MW = 492.884 g /mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration (at λ_{max} , pH 7.0, $\epsilon = 10.0 \text{ E} \times \text{mmol}^{-1} \times \text{cm}^{-1}$)	100 mM \pm 5%	101.5 mM
pH of Solution(at 20°C)	7.5 – 8.0	7.5
λ_{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 0.05	0.35
dUTP (HPLC Area % at λ_{max})	\geq 99%	\geq 99%.8
dNDP + dNMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

Europe
Headquarters UK

info.uk@bioline.com
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Europe
Germany

info.de@bioline.com
Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

America

info.us@bioline.com
Tel: +1 508 880 8990
Fax: +1 508 880 8993

Australia

info.aust@bioline.com
Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763



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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 2.5×10^{-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

Europe
Headquarters UK

info.uk@bioline.com
Tel: +44 (0)20 8830 5300
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Germany

info.de@bioline.com
Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

America

info.us@bioline.com
Tel: +1 508 880 8990
Fax: +1 508 880 8993

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Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763