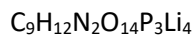
	Certificate of Analysis	COA No: CA_XBN-0002
		Version: 10

dUTP 100mM Suitable for Research and further Manufacturing Use	Catalog No:	MDX059
	Lot No:	NU075-B360280
	Storage Conditions:	-20°C
	Component Lot No:	DU-425112A
	Expiry date:	January 2028

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%	101.7 mM
pH of Solution(at 20 °C)	7.5 – 8.0	7.50 @ 21.7°C
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
dNTP (HPLC Area % at λ_{max})	\geq 99%	99.38%
dNDP + dAMP (HPLC Area % at λ_{max})	<1%	Passed
Appearance	Clear colourless solution	Passed

United Kingdom


Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

USA

Tel: +1 901.382.8716
Fax: +1 901.382.0027

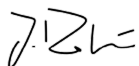
Germany

Tel: +49 (0)3371 60222 00
Fax: +49 (0)3371 60222 01

	Certificate of Analysis	COA No: CA_XBN-0002
		Version: 10

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
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

QA / QC Representative:



J. Rahnenführer

Date: 4th December 2025

United Kingdom

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

USA

Tel: +1 901.382.8716
Fax: +1 901.382.0027

Germany

Tel: +49 (0)3371 60222 00
Fax: +49 (0)3371 60222 01