	Certificate of Analysis	COA No: CA_SUP-0021 (CA_RES-0089)
		Version: 01

dUTP, 100 mM (Sodium Salt) Suitable for Research and further Manufacturing Use	Catalog No:	MDX096
	Lot No:	B358470
	Storage Conditions:	-20°C
	Component Lot No:	B358470
	Retest date:	October 2027

Quality Control Parameters

2'-deoxyuridine-5'-triphosphate sodium salt solution

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

Characteristics	Specification	Result
Concentration	97 - 103 mM	99 mM
pH of Solution (at 20-25°C)	6.9 – 7.1	7.0
λ_{max} (at pH 7.0)	262 ± 2 nm	263 nm
A250/A260	0.72 – 0.78	0.74
A280/A260	0.34 – 0.40	0.39
Purity dUTP (HPLC Area % at λ_{max})	≥99%	99.4%
dNDP + dNMP (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

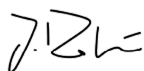
Germany

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

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Analysis	Specification	Result
Functional	A 800 bp 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.	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	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	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: 17th November 2025

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