

	Certificate of Analysis	COA No: CA BNN-0006
		Version: 07

<p>dUTP Mix 50mM</p> <p>Suitable for Research and further Manufacturing Use as an IVD component</p>	Catalog No:	BIO-39041
	Lot No:	DM414-B072330
	Shipping / Storage Conditions:	-20°C
	Component Lot No:	DUM-819206A
	Expiry date:	July 2021

Quality Control Parameters

Ultra-pure (>99% by HPLC) dNTPs supplied as lithium salts

Analysis	Specification	Result
Functional	A 800bp human genomic DNA fragment is amplified with a dilution series of dUTPs, 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 mix with supercoiled control plasmid. Analysed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid.	Passed

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