



## Certificate of Analysis

COA No: CA BNN-0002

Version: 03

<h1 style="margin: 0;">dNTP Mix 40mM</h1> <p style="margin: 10px 0 0 0;">For Research Use Only</p>	Storage Conditions:	-20°C
	Lot number:	DM4-617209
	Expiry date:	October 2019

### Quality Control Parameters

Analysis	Specification	Result
Functional	A 3Kb human Lambda DNA fragment is amplified with a dilution series of the dNTP mix, 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 dNTP 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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