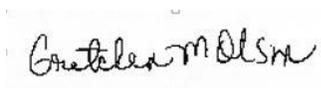


CERTIFICATE OF ANALYSIS

Catalog #:	MDX083	Lot #:	8D10120
Description:	dNTP Mix 40 mM Sodium Salt 2'Deoynucleoside 5'-triphosphate Mix, 10 mM each dATP, dCTP, dGTP, dTTP.		
Grade:	Molecular Biology Grade		
Purity:	> 99% by HPLC		
Functional Test:	A 3 Kb Lambda DNA fragment is amplified with a dilution series of dNTPs, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). Results: PASSED Each batch is tested for performance in a wide range of PCR templates with <i>Taq</i> and <i>Pfu</i> DNA polymerases, tested for performance with Q-PCR.		
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. Results: PASSED		
DNase Contamination:	Incubation of a 1 Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analyzed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection, 2.5×10^{-3} U DNase. Results: PASSED Certified free of nucleases (DNase, RNase), phosphatases.		
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. Results: PASSED Certified free of nucleases (DNase, RNase), phosphatases.		
Nicking Activity:	Incubation of dNTP mix with supercoiled control plasmid. Analyzed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid. Results: PASSED		
Re-Test Date:	Two years from date of manufacture.		
Applications:	For use in PCR, cDNA synthesis, DNA sequencing and labeling procedures.		
Storage:	Store at -20°C. Avoid freeze/thaw cycles or exposure to frequent temperature changes		
Safety Note(s):	Refer to the appropriate Safety Data Sheet (SDS) for additional information.		



10 APR 2020

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY