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New England Biolabs Certificate of Analysis

Product Name: DNA Polymerase I, Large (Klenow) Fragment

Catalog Number: M0210L Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 10

nmol of dNTP into acid insoluble material in 30 minutes at 37°C.

Packaging Lot Number: 10136292
Expiration Date: 12/2023
Storage Temperature: -20°C

Storage Conditions: 25 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol, (pH 7.4 @

25°C)

Specification Version: PS-M0210S/L v1.0

DNA Polymerase I, Large (Klenow) Fragment Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0210LVIAL	DNA Polymerase I, Large (Klenow) Fragment	10131972	Pass	
B7002SVIAL	NEBuffer™ 2	10127379	Pass	

Assay Name/Specification	Lot # 10136292
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of DNA Polymerase I, Large (Klenow) Fragment incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of DNA Polymerase I, Large (Klenow) Fragment is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 50 units of DNA Polymerase I, Large (Klenow) Fragment is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass



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This product has been tested and shown to be in compliance with all specifications.

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Christie Vazquez Production Scientist 02 Feb 2022

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Michael Tonello

Packaging Quality Control Inspector

02 Feb 2022

