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New England Biolabs Certificate of Analysis

Product Name: DNA Polymerase I (E. coli)

Catalog Number: M0209L Concentration: 10,000 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: 10133274
Expiration Date: 10/2023
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-M0209S/L v1.0

DNA Polymerase I (E. coli) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0209LVIAL	DNA Polymerase I (E. coli)	10128833	Pass	
B7002SVIAL	NEBuffer™ 2	10127379	Pass	

Assay Name/Specification	Lot # 10133274
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 100 units of DNA Polymerase I (E. coli) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) DNA Polymerase I (E. coli) is ≥ 99% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 100 units DNA Polymerase I (E. coli) incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 10 units of DNA Polymerase I (E. coli) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S	Pass



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gel electrophoresis using fluorescent detection.

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christie Vazquez Production Scientist 16 Dec 2021 Michael Tonello

Packaging Quality Control Inspector

16 Dec 2021



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