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New England Biolabs Certificate of Analysis

Product Name: E.coli DNA Ligase

Catalog Number: M0205L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to give 50%

ligation of 6 µg of Lambda-HindIII DNA in 30 minutes at 16°C in a

total reaction volume of 20 µl.

Packaging Lot Number: 10065801
Expiration Date: 01/2022
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 µg/ml BSA

, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0205S/L v2.0

E.coli DNA Ligase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0205LVIAL	E.coli DNA Ligase	10065798	Pass	
B0205SVIAL	E. coli DNA Ligase Reaction Buffer	10029823	Pass	

Assay Name/Specification	Lot # 10065801
RNase Activity (Extended Digestion) A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l of E. coli DNA Ligase 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 10 units of E. coli DNA Ligase 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
Protein Purity Assay (SDS-PAGE) E. coli DNA Ligase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour)	Pass



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

a minimum of 50 units of E. coli DNA Ligase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

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.

Ana Egana Production Scientist 04 Aug 2020 Michael Tonello

Michae

Packaging Quality Control Inspector

04 Aug 2020



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