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New England Biolabs Certificate of Analysis

Product Name: T5 Exonuclease

Catalog Number: M0663L Concentration: 10,000 U/ml

Unit Definition: One unit of T5 Exonuclease is defined as the amount of enzyme

required to cause the change of 0.00032 A260 nm/min at 37°C in

CutSmart Buffer.

Packaging Lot Number: 10234103
Expiration Date: 02/2026
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.1 % Triton X-100, (pH 7.5 @ 25°C)

Specification Version: PS-M0663S/L v2.0

T5 Exonuclease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0663LVIAL	T5 Exonuclease	10228303	Pass
B7004SVIAL	NEBuffer™ 4	10225682	Pass

Assay Name/Specification	Lot # 10234103	
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled pUC19 DNA and a minimum of 30 units of T5 Exonuclease 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) T5 Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass	
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 ul of T5 Exonuclease 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	

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



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www.neb.com/trademarks for additional information.

Heidi Church Production Scientist

08 Mar 2024

Michael Tonello

Packaging Quality Control Inspector

01 Apr 2024