

New England Biolabs Certificate of Analysis

Product Name: T5 Exonuclease
Catalog Number: M0663S
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: 10209949
Expiration Date: 05/2025
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
M0663SVIAL	T5 Exonuclease	10188128	Pass
B7004SVIAL	NEBuffer™ 4	10184703	Pass

Assay Name/Specification	Lot # 10209949
<p>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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) T5 Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>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.</p>	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

www.neb.com/trademarks for additional information.



Penghua Zhang
Production Scientist
02 May 2023



Michael Tonello
Packaging Quality Control Inspector
06 Oct 2023