

New England Biolabs Certificate of Analysis

Product Name: T5 Exonuclease
Catalog Number: M0363L
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to produce 1 nmol of acid soluble deoxyribonucleotide from double-stranded DNA in a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 4 with 0.15 mM sonicated duplex [³H]-DNA.
Lot Number: 10055613
Expiration Date: 06/2021
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-M0363S/L v1.0

T5 Exonuclease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0363LVIAL	T5 Exonuclease	10045739	Pass
B7004SVIAL	NEBuffer™ 4	10043904	Pass

Assay Name/Specification	Lot # 10055613
Protein Purity Assay (SDS-PAGE) T5 Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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

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



Doreen Duquette
Production Scientist
06 Jun 2019



Michael Tonello
Packaging Quality Control Inspector
11 Sep 2019