

New England Biolabs Certificate of Analysis

Product Name: T5 Exonuclease
Catalog Number: M0363S
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: 10025500
Expiration Date: 09/2020
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 |
| M0363SVIAL | T5 Exonuclease | 10022874 | Pass |
| B7004SVIAL | NEBuffer™ 4 | 10026208 | Pass |

| Assay Name/Specification | Lot # 10025500 |
|---|----------------|
| 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 |

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

John D. Greci

John Greci
Production Scientist
05 Oct 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
26 Nov 2018