

## 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:** 10129015  
**Expiration Date:** 03/2023  
**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 v1.0

T5 Exonuclease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0663SVIAL	T5 Exonuclease	10101265	Pass
B7004SVIAL	NEBuffer™ 4	10115023	Pass

Assay Name/Specification	Lot # 10129015
<b>Protein Purity Assay (SDS-PAGE)</b> T5 Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>Endonuclease Activity (Nicking)</b> 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*John D. Greci*

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John Greci  
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03 Dec 2021

*Michael Tonello*

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Packaging Quality Control Inspector  
03 Dec 2021