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New England Biolabs Certificate of Analysis

Product Name: T7 Endonuclease I

Catalog Number: M0302L Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to convert >90%

of 1 µg of supercoiled cruciform pUC(AT) to >90% linear form in a

total reaction volume of 50 µl in 1 hour at 37°C.

Packaging Lot Number: 10106771
Expiration Date: 04/2023
Storage Temperature: -20°C

Storage Conditions: 20 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.15 % Triton®X-100, (pH 7.5 @ 25°C)

Specification Version: PS-M0302S/L v1.0

T7 Endonuclease I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0302LVIAL	T7 Endonuclease I	10106773	Pass	
B7002SVIAL	NEBuffer™ 2	10102430	Pass	

Assay Name/Specification	Lot # 10106771
Protein Purity Assay (SDS-PAGE)	Pass
T7 Endonuclease I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie	
Blue detection.	
Ligation and Recutting (Terminal Integrity, Digested DNA)	Pass
A 400 µl reaction in NEBuffer 2 containing 16 µg of PhiX174-HaeIII digest and a	
minimum of 40 units of T7 Endonuclease I incubated for 2 hours at 37°C followed by	
ligation with T4 DNA Ligase for 5 minutes at 25°C results in >50% ligation of the	
DNA fragments as determined by agarose gel electrophoresis. Of these ligated	
fragments, >95% can be recut with HaelII.	

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.



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Packaging Quality Control Inspector

17 May 2021