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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: 10231102
Expiration Date: 12/2025
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	10221175	Pass	
B7002SVIAL	NEBuffer™ 2	10221172	Pass	

Assay Name/Specification	Lot # 10231102
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 HaeIII.	
Protein Purity Assay (SDS-PAGE)	Pass
T7 Endonuclease I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie	
Blue detection.	

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

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M0302L / Lot: 10231102

Page 1 of 2



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06 Feb 2024

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Packaging Quality Control Inspector

15 Mar 2024