

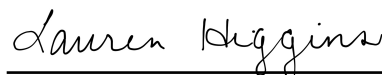
New England Biolabs Certificate of Analysis

Product Name: T7 Endonuclease I
Catalog #: M0302S/L
Concentration: 10,000 units/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.
Lot #: 0041804
Assay Date: 04/2018
Expiration Date: 4/2020
Storage Temp: -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
Effective Date: 10 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0041804
Ligation and Recutting (Terminal Integrity, Digested DNA) - 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.	Pass
Protein Purity Assay (SDS-PAGE) - T7 Endonuclease I is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



Authorized by
Derek Robinson
10 Apr 2018



Inspected by
Lauren Higgins
02 Apr 2018

