

New England Biolabs Certificate of Analysis

Product Name: T7 Endonuclease I
Catalog Number: M0302S
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.
Lot Number: 10050173
Expiration Date: 04/2021
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 |
| M0302SVIAL | T7 Endonuclease I | 10041807 | Pass |
| B7002SVIAL | NEBuffer™ 2 | 10052180 | Pass |

| Assay Name/Specification | Lot # 10050173 |
|---|----------------|
| 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 |

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

Lauren Higgins

Lauren Sears Higgins
Production Scientist
23 Apr 2019

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
23 Sep 2019