

New England Biolabs Product Specification

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| <i>Product Name:</i> | <i>T5 Exonuclease</i> |
| <i>Catalog #:</i> | <i>M0663S/L</i> |
| <i>Concentration:</i> | <i>10,000 units/ml</i> |
| <i>Unit Definition:</i> | <i>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.</i> |
| <i>Shelf Life:</i> | <i>24 months</i> |
| <i>Storage Temp:</i> | <i>-20°C</i> |
| <i>Storage Conditions:</i> | <i>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)</i> |
| <i>Specification Version:</i> | <i>PS-M0663S/L v1.0</i> |
| <i>Effective Date:</i> | <i>29 Sep 2020</i> |

Assay Name/Specification (minimum release criteria)

Endonuclease Activity (Nicking) - 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.

Protein Purity Assay (SDS-PAGE) - T5 Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

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Date 29 Sep 2020

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