

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>Exonuclease T</i>
<i>Catalog #:</i>	<i>M0265S/L</i>
<i>Concentration:</i>	<i>5,000 units/ml</i>
<i>Unit Definition:</i>	<i>One unit is defined as the amount of enzyme required to release 1 nmol of single dT nucleotides from FAM-labeled polythymidine substrate in 30 minutes at 25°C in a total reaction volume of 20 µl.</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Storage Conditions:</i>	<i>10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 200 µg/ml BSA, 50 % Glycerol, (pH 7.4 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-M0265S/L v1.0</i>
<i>Effective Date:</i>	<i>31 Oct 2018</i>

### Assay Name/Specification (minimum release criteria)

**Endonuclease Activity (Nicking)** - A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 15 units of Exonuclease T incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.



Date 31 Oct 2018

Derek Robinson  
Director of Quality Control

