

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>Mung Bean Nuclease</i>
<i>Catalog #:</i>	<i>M0250S/L</i>
<i>Concentration:</i>	<i>10,000 units/ml</i>
<i>Unit Definition:</i>	<i>One unit is defined as the amount of enzyme required to digest 1 µg of M13mp18 single-stranded DNA to fragments less than 1kb in length in a total reaction volume of 80 µl in 1X Mung Bean Nuclease Reaction Buffer when incubated for 15 minutes at 37°C.</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Storage Conditions:</i>	<i>10 mM Sodium Acetate, 0.1 mM Zinc Acetate, 1 mM Cysteine, 0.001% Triton X-100, 50% Glycerol, (pH 5.0 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-M0250S/L v2.0</i>
<i>Effective Date:</i>	<i>06 May 2022</i>

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

**Double Stranded DNase Activity (HaeIII Digested DNA)** - A 400 µl reaction in NEBuffer 2 containing 16 µg of HaeIII digested PhiX174 DNA and 10 units of Mung Bean Nuclease is incubated for 30 minutes at 30°C. The DNA is then ligated with T4 DNA Ligase resulting in 90% ligation of the DNA fragments. Of these ligated fragments 95% can be recut with HaeIII.

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