**Product Name:** Mung Bean Nuclease  
**Catalog Number:** M0250S  
**Concentration:** 10,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme required to produce 1 µg of acid-soluble total nucleotide in a total reaction volume of 50 µl in 1 minute at 37°C in 1X Mung Bean Nuclease Reaction Buffer with 0.5 mg/ml denatured Calf Thymus DNA.

**Packaging Lot Number:** 10070946  
**Expiration Date:** 04/2022  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Sodium Acetate, 0.1 mM Zinc Acetate, 1 mM Cysteine, 0.001% Triton®X-100, 50% Glycerol, (pH 5.0 @ 25°C)

**Specification Version:** PS-M0250S/L v1.0

### Mung Bean Nuclease Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
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</thead>
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<td>Mung Bean Nuclease</td>
<td>10070945</td>
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<tr>
<td>B0250SVIAL</td>
<td>Mung Bean Nuclease Reaction Buffer</td>
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</table>

### Assay Name/Specification

**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.

Lot # 10070946  
Pass

This product has been tested and shown to be in compliance with all specifications.
Bhairavi Jani  
Production Scientist  
13 May 2020

Jay Minichiello  
Packaging Quality Control Inspector  
13 May 2020