

## New England Biolabs Certificate of Analysis

**Product Name:** *Mung Bean Nuclease*  
**Catalog Number:** *M0250L*  
**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:** *10054610*  
**Expiration Date:** *12/2021*  
**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 |                                    |            |                      |
|-----------------------------------|------------------------------------|------------|----------------------|
| NEB Part Number                   | Component Description              | Lot Number | Individual QC Result |
| M0250LVIAL                        | Mung Bean Nuclease                 | 10054609   | Pass                 |
| B0250SVIAL                        | Mung Bean Nuclease Reaction Buffer | 10062272   | Pass                 |

| Assay Name/Specification   | Lot # 10054610 |
|--|----------------|
| <b>Double Stranded DNase Activity (HaeIII Digested DNA)</b><br>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. | Pass           |

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

*Dongxian Yue*

Dongxian Yue  
Production Scientist  
16 Dec 2019

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
16 Dec 2019