

## New England Biolabs Certificate of Analysis

**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 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.  
**Packaging Lot Number:** 10201096  
**Expiration Date:** 04/2025  
**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 v2.0

Mung Bean Nuclease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0250SVIAL	Mung Bean Nuclease	10191264	Pass
B0250SVIAL	Mung Bean Nuclease Reaction Buffer	10149032	Pass

Assay Name/Specification	Lot # 10201096
<b>Double Stranded DNase Activity (HaeIII Digested DNA)</b> 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.

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