

## New England Biolabs Certificate of Analysis

**Product Name:** *Low Molecular Weight DNA Ladder*  
**Catalog Number:** *N3233S*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Packaging Lot Number:** *10078356*  
**Expiration Date:** *07/2022*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N3233S/L v1.0*

Low Molecular Weight DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3233SVIAL	Low Molecular Weight DNA Ladder	10078355	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10069106	Pass

Assay Name/Specification	Lot # 10078356
<b>Electrophoretic Pattern (Marker)</b> The banding pattern of Low Molecular Weight DNA Ladder on a 3% agarose gel shows discrete, clearly identifiable bands at each band of the marker, when stained with Ethidium Bromide at a concentration of 0.5 µg/ml.	Pass
<b>DNA Concentration (A260)</b> The concentration of Low Molecular Weight DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.	Pass
<b>A260/A280 Assay</b> The ratio of UV absorption of Low Molecular Weight DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Low Molecular Weight DNA Ladder incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



---

Ana Egana  
Production Scientist  
06 Aug 2020



---

Michael Tonello  
Packaging Quality Control Inspector  
06 Aug 2020