

## New England Biolabs Certificate of Analysis

**Product Name:** *Low Molecular Weight DNA Ladder*  
**Catalog Number:** *N3233S*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Lot Number:** *10042930*  
**Expiration Date:** *04/2021*  
**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	10042931	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10036377	Pass

Assay Name/Specification	Lot # 10042930
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>

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



Doreen Duquette  
Production Scientist  
13 Mar 2019



Jay Minichiello  
Packaging Quality Control Inspector  
29 May 2019