

## New England Biolabs Certificate of Analysis

**Product Name:** *Low Molecular Weight DNA Ladder*  
**Catalog #:** *N3233S/L*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Lot #:** *0101511*  
**Assay Date:** *11/2015*  
**Expiration Date:** *11/2017*  
**Storage Temp:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N3233S/L v1.0*  
**Effective Date:** *13 Mar 2015*

Assay Name/Specification (minimum release criteria)	Lot #0101511
<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>



Authorized by  
Derek Robinson  
13 Mar 2015



Inspected by  
Vanessa Mathieu-Sheltry  
18 Nov 2015

