

## 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 #:* 0101708  
*Assay Date:* 08/2017  
*Expiration Date:* 8/2019  
*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 #0101708 |
|--|--------------|
| <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  
15 Aug 2017

