

## New England Biolabs Certificate of Analysis

*Product Name:* 100 bp DNA Ladder  
*Catalog #:* N3231S/L  
*Concentration:* 500 µg/ml  
*Unit Definition:* N/A  
*Lot #:* 1211712  
*Assay Date:* 12/2017  
*Expiration Date:* 12/2019  
*Storage Temp:* -20°C  
*Storage Conditions:* 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
*Specification Version:* PS-N3231S/L v1.0  
*Effective Date:* 19 Sep 2017

Assay Name/Specification (minimum release criteria)	Lot #1211712
<b>A260/A280 Assay</b> - The ratio of UV absorption of 100 bp 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 100 bp 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 100 bp DNA Ladder on a 1.2% 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 100 bp 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  
19 Sep 2017



Inspected by  
Vanessa Mathieu-Sheltry  
28 Dec 2017

