

## New England Biolabs Certificate of Analysis

**Product Name:** 100 bp DNA Ladder  
**Catalog #:** N3231S/L  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 1031404  
**Assay Date:** 04/2014  
**Expiration Date:** 04/2016  
**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:** 08 Jul 2014

Assay Name/Specification (minimum release criteria)	Lot #1031404
<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  
08 Jul 2014



Inspected by  
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24 Jul 2014

