

## New England Biolabs Certificate of Analysis

**Product Name:** 50 bp DNA Ladder  
**Catalog #:** N3236S/L  
**Concentration:** 1 mg/ml  
**Unit Definition:** N/A  
**Lot #:** 0191505  
**Assay Date:** 05/2015  
**Expiration Date:** 5/2017  
**Storage Temp:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3236S/L v1.0  
**Effective Date:** 07 Oct 2014

Assay Name/Specification (minimum release criteria)	Lot #0191505
<b>A260/A280 Assay</b> - The ratio of UV absorption of 50 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 50 bp DNA Ladder is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> - The banding pattern of 50 bp 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 5 µg of 50 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  
07 Oct 2014



Inspected by  
Vanessa Mathieu-Sheltry  
20 May 2015

