

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> 1 kb DNA Ladder  
**Catalog #:** N0468S/L  
**Concentration:** 50 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0421401  
**Assay Date:** 01/2014  
**Expiration Date:** 01/2016  
**Storage Temp:** 4 °C  
**Storage Conditions:** 3.3 mM Tris-HCl (pH 8.0), 11 mM EDTA , 0.015 % Bromophenol Blue , 0.017 % SDS , 2.5 % Ficoll 400  
**Specification Version:** PS-N0468S/L v1.0  
**Effective Date:** 25 Jun 2014

Assay Name/Specification (minimum release criteria)	Lot #0421401
<b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> 1 kb DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> - The banding pattern of Quick-Load <sup>®</sup> 1 kb 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 Quick-Load <sup>®</sup> 1 kb 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  
25 Jun 2014



Inspected by  
Vanessa Mathieu-Sheltry  
23 Jul 2014

