

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> 1 kb Extend DNA Ladder  
**Catalog #:** N3239S  
**Concentration:** 50 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0031512  
**Assay Date:** 12/2015  
**Expiration Date:** 12/2017  
**Storage Temp:** 4°C  
**Storage Buffer:** 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-N3239S v1.0  
**Effective Date:** 02 Dec 2014

Assay Name/Specification (minimum release criteria)	Lot #0031512
<b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> 1 kb Extend 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 Extend DNA Ladder on a 0.5% 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 Extend 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  
02 Dec 2014



Inspected by  
Vanessa Mathieu-Sheltry  
02 Dec 2015

