

New England Biolabs Product Specification

<i>Product Name:</i>	<i>Quick-Load® 1 kb Extend DNA Ladder</i>
<i>Catalog #:</i>	<i>N3239S</i>
<i>Concentration:</i>	<i>50 µg/ml</i>
<i>Unit Definition:</i>	<i>N/A</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>4°C</i>
<i>Storage Conditions:</i>	<i>3.3 mM Tris-HCl (pH 8.0), 11 mM EDTA , 0.015 % Bromophenol Blue , 0.017 % SDS , 2.5 % Ficoll 400</i>
<i>Specification Version:</i>	<i>PS-N3239S v1.0</i>
<i>Effective Date:</i>	<i>16 May 2014</i>

Assay Name/Specification (minimum release criteria)

DNA Concentration (A260) - The concentration of Quick-Load® 1 kb Extend DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.

Electrophoretic Pattern (Marker) - The banding pattern of Quick-Load® 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.

Non-Specific DNase Activity (DNA, 16 hour) - A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Quick-Load® 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.



Date 16 May 2014

Derek Robinson
Director of Quality Control

