

## New England Biolabs Certificate of Analysis

*Product Name:* Quick-Load<sup>®</sup> Low Molecular Weight DNA Ladder  
*Catalog #:* N0474S  
*Concentration:* 50 µg/ml  
*Unit Definition:* N/A  
*Lot #:* 0051407  
*Assay Date:* 07/2014  
*Expiration Date:* 07/2016  
*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-N0474S v1.0  
*Effective Date:* 25 Jun 2014

Assay Name/Specification (minimum release criteria)	Lot #0051407
<b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> Low Molecular Weight 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> Low Molecular Weight 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 2.5 µg of Quick-Load <sup>®</sup> Low Molecular Weight 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

