

## New England Biolabs Certificate of Analysis

*Product Name:* Fast DNA Ladder  
*Catalog #:* N3238S  
*Concentration:* 25 µg/ml  
*Unit Definition:* N/A  
*Lot #:* 0041608  
*Assay Date:* 08/2016  
*Expiration Date:* 8/2018  
*Storage Temp:* 4°C  
*Storage Conditions:* 0.002 % Xylene cyanol , 5 mM Tris-HCl (pH 8.0), 5 mM EDTA , 5 % Glycerol  
*Specification Version:* PS-N3238S v1.0  
*Effective Date:* 25 Apr 2016

Assay Name/Specification (minimum release criteria)	Lot #0041608
<b>DNA Concentration (A260)</b> - The concentration of Fast DNA Ladder is between 25 and 27.5 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> - The banding pattern of Fast 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 1.25 µg of Fast 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 Apr 2016



Inspected by  
Vanessa Mathieu-Sheltry  
11 Aug 2016

