

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> Purple 50 bp DNA Ladder  
**Catalog #:** N0556S  
**Concentration:** 100 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0021704  
**Assay Date:** 04/2017  
**Expiration Date:** 4/2019  
**Storage Temp:** 4°C  
**Storage Conditions:** 3.3 mM Tris-HCl, 10 mM EDTA, 2.5 % Ficoll<sup>®</sup> 400, 0.001 % Dye 2, 0.02 % Dye 1, (pH 8.0 @ 25°C)  
**Specification Version:** PS-N0556S v1.0  
**Effective Date:** 31 Mar 2017

Assay Name/Specification (minimum release criteria)	Lot #0021704
<b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> Purple 50 bp DNA Ladder is between 100 and 110 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> Purple 50 bp 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 5 µg of Quick-Load <sup>®</sup> Purple 50 bp 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  
31 Mar 2017



Inspected by  
Vanessa Mathieu-Sheltry  
26 Apr 2017

