

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> Purple 1 kb DNA Ladder  
**Catalog #:** N0552S/L  
**Concentration:** 50 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0091804  
**Assay Date:** 04/2018  
**Expiration Date:** 4/2020  
**Storage Temp:** 4°C  
**Storage Conditions:** 2.5 % Ficoll 400 , 10 mM EDTA , 3.3 mM Tris-HCl (pH 8.0), 0.001 % Dye 2 , 0.02 % Dye 1  
**Specification Version:** PS-N0552S v1.0  
**Effective Date:** 14 Feb 2018

Assay Name/Specification (minimum release criteria)	Lot #0091804
<b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> Purple 1kb 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> Purple 1kb 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 2.5 µg of Quick-Load <sup>®</sup> Purple 1kb 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  
14 Feb 2018



Inspected by  
Vanessa Mathieu-Sheltry  
17 Apr 2018

