

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>Quick-Load<sup>®</sup> Purple 50 bp DNA Ladder</i>
<i>Catalog #:</i>	<i>N0556S</i>
<i>Concentration:</i>	<i>100 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, 10 mM EDTA, 2.5 % Ficoll<sup>®</sup> 400, 0.001 % Dye 2, 0.02 % Dye 1, (pH 8.0 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-N0556S v1.0</i>
<i>Effective Date:</i>	<i>31 Mar 2016</i>

### Assay Name/Specification (minimum release criteria)

**DNA Concentration (A260)** - 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.

**Electrophoretic Pattern (Marker)** - 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.

**Non-Specific DNase Activity (DNA, 16 hour)** - 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.



Date 31 Mar 2016

Derek Robinson  
Director of Quality Control

