

## New England Biolabs Product Specification

*Product Name:* Quick-Load<sup>®</sup> Purple 2-Log DNA Ladder (0.1 - 10.0 kb)  
*Catalog #:* N0550S  
*Concentration:* 100 µg/ml  
*Unit Definition:* N/A  
*Shelf Life:* 24 months  
*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-N0550S v1.0  
*Effective Date:* 02 Jun 2014

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

**DNA Concentration (A260)** - The concentration of Quick-Load<sup>®</sup> Purple 2-log DNA Ladder (0.1 - 10.0 kb) 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 2-log DNA Ladder (0.1 - 10.0 kb) 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.

**Non-Specific DNase Activity (DNA, 16 hour)** - A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of Quick-Load<sup>®</sup> Purple 2-log DNA Ladder (0.1 - 10.0 kb) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.



Derek Robinson  
Director of Quality Control

Date 02 Jun 2014

