

## New England Biolabs Product Specification

*Product Name:* Quick-Load<sup>®</sup> Low Molecular Weight DNA Ladder  
*Catalog #:* N0474S  
*Concentration:* 50 µg/ml  
*Unit Definition:* N/A  
*Shelf Life:* 24 months  
*Storage Temp:* 4°C  
*Storage Conditions:* 3.3 mM Tris-HCl (pH 8.0), 11 mM EDTA, 0.015 % Bromophenol Blue, 0.017 % SDS, 2.5 % Ficoll 400  
*Specification Version:* PS-N0474S v1.0  
*Effective Date:* 16 May 2014

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

**DNA Concentration (A260)** - The concentration of Quick-Load<sup>®</sup> Low Molecular Weight DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.

**Electrophoretic Pattern (Marker)** - The banding pattern of Quick-Load<sup>®</sup> Low Molecular Weight 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 2.5 µg of Quick-Load<sup>®</sup> Low Molecular Weight 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.



Derek Robinson  
Director of Quality Control

Date 16 May 2014

