

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> 50 bp DNA Ladder  
**Catalog #:** N0473S  
**Concentration:** 100 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0071603  
**Assay Date:** 03/2016  
**Expiration Date:** 03/2018  
**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-N0473S v1.0  
**Effective Date:** 09 Mar 2016

| Assay Name/Specification (minimum release criteria)   | Lot #0071603 |
|---|--------------|
| <b>DNA Concentration (A260)</b> - The concentration of Quick-Load <sup>®</sup> 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> 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> 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  
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09 Mar 2016



Inspected by  
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11 Mar 2016

