

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load<sup>®</sup> Purple 100 bp DNA Ladder  
**Catalog Number:** N0551S  
**Concentration:** 50 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10206880  
**Expiration Date:** 08/2025  
**Storage Temperature:** 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-N0551S v1.0

| Quick-Load <sup>®</sup> Purple 100 bp DNA Ladder Component List |  |            |                      |
|---|--|------------|----------------------|
| NEB Part Number   | Component Description                            | Lot Number | Individual QC Result |
| N0551SVIAL  | Quick-Load <sup>®</sup> Purple 100 bp DNA Ladder | 10204947   | Pass                 |
| B7025SVIAL  | Gel Loading Dye, Purple (6X), no SDS             | 10198643   | Pass                 |

| Assay Name/Specification   | Lot # 10206880 |
|--|----------------|
| <b>DNA Concentration (A260)</b><br>The concentration of Quick-Load <sup>®</sup> Purple 100 bp DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.  | Pass           |
| <b>Electrophoretic Pattern (Marker)</b><br>The banding pattern of Quick-Load <sup>®</sup> Purple 100 bp 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.                        | Pass           |
| <b>Non-Specific DNase Activity (DNA, 16 hour)</b><br>A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Quick-Load <sup>®</sup> Purple 100 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. | Pass           |

This product has been tested and shown to be in compliance with all specifications.

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24 Aug 2023



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15 Sep 2023