

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load® Purple 1 kb Plus DNA Ladder  
**Catalog Number:** N0550S  
**Concentration:** 100 µg/ml  
**Unit Definition:** N/A  
**Lot Number:** 10022828  
**Expiration Date:** 09/2020  
**Storage Temperature:** 4°C  
**Storage Conditions:** 2.5 % Ficoll 400 , 10 mM EDTA , 3.3 mM Tris-HCl, 0.001 % Dye 2 , 0.02 % Dye 1, (pH 8.0 @ 25°C)  
**Specification Version:** PS-N0550S/L v2.0

| Quick-Load® Purple 1 kb Plus DNA Ladder Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description                   | Lot Number | Individual QC Result |
| N0550SVIAL   | Quick-Load® Purple 1 kb Plus DNA Ladder | 10021325   | Pass                 |
| B7025SVIAL   | Gel Loading Dye, Purple (6X), no SDS    | 10014371   | Pass                 |

| Assay Name/Specification  | Lot # 10022828 |
|---|----------------|
| <b>Non-Specific DNase Activity (DNA, 16 hour)</b><br>A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of Quick-Load® Purple 1 kb Plus 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           |
| <b>Electrophoretic Pattern (Marker)</b><br>The banding pattern of Quick-Load® Purple 1 kb Plus 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>DNA Concentration (A260)</b><br>The concentration of Quick-Load® Purple 1 kb Plus DNA Ladder is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.  | Pass           |

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



Tony Spear-Alfonso  
Production Scientist  
08 Aug 2018



Michael Tonello  
Packaging Quality Control Inspector  
28 Sep 2018