

## 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:** 10070826  
**Expiration Date:** 03/2022  
**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	10068477	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10064407	Pass

Assay Name/Specification	Lot # 10070826
<b>DNA Concentration (A260)</b> 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> 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> 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.



Vanessa Mathieu-Sheltry  
Production Scientist  
28 Feb 2020



Michael Tonello  
Packaging Quality Control Inspector  
20 Mar 2020