

## 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  
**Lot Number:** 10049304  
**Expiration Date:** 05/2021  
**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	10045828	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10038961	Pass

Assay Name/Specification	Lot # 10049304
<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.



Doreen Duquette  
Production Scientist  
19 Apr 2019



Jay Minichiello  
Packaging Quality Control Inspector  
08 Aug 2019