

## 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:** 10040544  
**Expiration Date:** 04/2021  
**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	10040545	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10021090	Pass

Assay Name/Specification	Lot # 10040544
<b>DNA Concentration (A260)</b> 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.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> 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.	<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® 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.	<b>Pass</b>

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



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Doreen Duquette  
Production Scientist  
04 Feb 2019



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Michael Tonello  
Packaging Quality Control Inspector  
10 Apr 2019