NEW ENGLAND BioLabs Inc.
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240 County Road
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New England Biolabs
Certificate of Analysis

Product Name:	*Quick-Load Purple 1 kb DNA Ladder*
Catalog Number:	*N0552L*
Concentration:	*50 µg/ml*
Unit Definition:	*N/A*
Packaging Lot Number:	*10104617*
Expiration Date:	*04/2023*
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-N0552S v1.0*

Quick-Load Purple 1 kb DNA Ladder Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
N0552SVIAL	Quick-Load® Purple 1 kb DNA Ladder	10104042	**Pass**
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10097267	**Pass**

Assay Name/Specification	**Lot # 10104617**
Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Quick-Load® Purple 1kb DNA Ladder incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
DNA Concentration (A260) The concentration of Quick-Load® Purple 1kb DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.	**Pass**
Electrophoretic Pattern (Marker) The banding pattern of Quick-Load® Purple 1kb 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**

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

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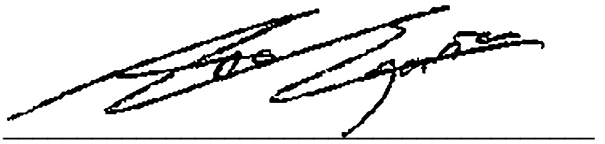

Ana Egana
Production Scientist
04 May 2021

Josh Hersey
Packaging Quality Control Inspector
04 May 2021