

## New England Biolabs Certificate of Analysis

**Product Name:** Quick-Load® Purple 50 bp DNA Ladder  
**Catalog Number:** N0556S  
**Concentration:** 100 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10206879  
**Expiration Date:** 07/2025  
**Storage Temperature:** 4°C  
**Storage Conditions:** 3.3 mM Tris-HCl, 10 mM EDTA, 2.5 % Ficoll® 400, 0.001 % Dye 2, 0.02 % Dye 1, (pH 8.0 @ 25°C)  
**Specification Version:** PS-N0556S v1.0

Quick-Load® Purple 50 bp DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0556SVIAL	Quick-Load® Purple 50 bp DNA Ladder	10200398	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10186772	Pass

Assay Name/Specification	Lot # 10206879
<b>DNA Concentration (A260)</b> The concentration of Quick-Load® Purple 50 bp DNA Ladder is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.	Pass
<b>Electrophoretic Pattern (Marker)</b> The banding pattern of Quick-Load® Purple 50 bp DNA Ladder on a 3% 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 5 µg of Quick-Load® Purple 50 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.

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24 Aug 2023



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08 Sep 2023