

## New England Biolabs Certificate of Analysis

**Product Name:** 1 kb DNA Ladder  
**Catalog Number:** N3232S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10204903  
**Expiration Date:** 08/2025  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3232S/L v1.0

1 kb DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3232SVIAL	1 kb DNA Ladder	10201208	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10198643	Pass

Assay Name/Specification	Lot # 10204903
<b>A260/A280 Assay</b> The ratio of UV absorption of 1 kb DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> The concentration of 1 kb DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern</b> The banding pattern of 1 kb DNA Ladder on a 1.2% agarose gel shows discrete, clearly identifiable bands at each size fragment 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 2.5 µg of 1 kb 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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08 Aug 2023



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30 Aug 2023