

## New England Biolabs Certificate of Analysis

**Product Name:** 1 kb DNA Ladder  
**Catalog Number:** N3232S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Lot Number:** 10033520  
**Expiration Date:** 01/2021  
**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	10033521	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10021091	Pass

Assay Name/Specification	Lot # 10033520
<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.	Pass
<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.	Pass
<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.	Pass
<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.	Pass

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



Tony Spear-Alfonso  
Production Scientist  
14 Nov 2018



Josh Hersey  
Packaging Quality Control Inspector  
17 Jan 2019