

## New England Biolabs Certificate of Analysis

**Product Name:** 1 kb Plus DNA Ladder for Safe Stains  
**Catalog Number:** N0559S  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10100171  
**Expiration Date:** 02/2023  
**Storage Temperature:** 4°C  
**Storage Conditions:** 5 mM Tris-HCl, 5 mM EDTA, 0.002% Xylene Cyanol, 5% Glycerol, (pH 8.0 @ 25°C)  
**Specification Version:** PS-N0559S v1.0

1 kb Plus DNA Ladder for Safe Stains Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0559SVIAL	1 kb Plus DNA Ladder for Safe Stains	10100172	Pass

Assay Name/Specification	Lot # 10100171
<b>Electrophoretic Pattern (Marker)</b> The banding pattern of 1 kb Plus DNA Ladder for Safe Stains 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
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of 1 kb Plus DNA Ladder for Safe Stains incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>DNA Concentration (A260)</b> The concentration of 1 kb Plus DNA Ladder for Safe Stains is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Vanessa Mathieu-Sheltry  
Production Scientist  
11 Mar 2021



Michael Tonello  
Packaging Quality Control Inspector  
11 Mar 2021