

## 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:** 10207551  
**Expiration Date:** 08/2025  
**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	10204938	Pass

Assay Name/Specification	Lot # 10207551
<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
<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

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  
24 Aug 2023



Michael Tonello  
Packaging Quality Control Inspector  
25 Sep 2023