

## 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:** 10077707  
**Expiration Date:** 07/2022  
**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	10077706	Pass

Assay Name/Specification	Lot # 10077707
<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
<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

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



Vanessa Mathieu-Sheltry  
Production Scientist  
17 Jul 2020



Michael Tonello  
Packaging Quality Control Inspector  
17 Jul 2020