

New England Biolabs Product Specification

Product Name: 1 kb Plus DNA Ladder for Safe Stains
Catalog #: N0559S
Concentration: 50 µg/ml
Unit Definition: N/A
Shelf Life: 24 months
Storage Temp: 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
Effective Date: 07 Jun 2019

Assay Name/Specification (minimum release criteria)

DNA Concentration (A260) - 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.

Electrophoretic Pattern (Marker) - 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.

Non-Specific DNase Activity (DNA, 16 hour) - 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.



Date 07 Jun 2019

Derek Robinson
Director of Quality Control

