

New England Biolabs Product Specification

Product Name: 1 kb DNA Ladder
Catalog #: N3232S/L
Concentration: 500 µg/ml
Unit Definition: N/A
Shelf Life: 24 months
Storage Temp: -20°C
Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA
Specification Version: PS-N3232S/L v1.0
Effective Date: 12 Mar 2014

Assay Name/Specification (minimum release criteria)

A260/A280 Assay - The ratio of UV absorption of 1 kb DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.

DNA Concentration (A260) - The concentration of 1 kb DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.

Electrophoretic Pattern - 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.

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



Derek Robinson
Director of Quality Control

Date 12 Mar 2014

