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New England Biolabs Product Specification

Product Name: Supercoiled DNA Ladder

Catalog #: N0472SConcentration: $500 \mu g/ml$ 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-N0472S v1.0

Effective Date: 14 May 2014

Assay Name/Specification (minimum release criteria)

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

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

Electrophoretic Pattern (Marker) - The banding pattern of Supercoiled DNA Ladder on a 0.8% 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 Supercoiled 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.

Date

14 May 2014

Derek Robinson

Director of Quality Control





