

New England Biolabs Product Specification

Product Name: Quick-Load[®] 50 bp DNA Ladder
Catalog #: N0473S
Concentration: 100 µg/ml
Unit Definition: N/A
Shelf Life: 24 months
Storage Temp: 4°C
Storage Conditions: 3.3 mM Tris-HCl (pH 8.0), 11 mM EDTA, 0.015 % Bromophenol Blue, 0.017 % SDS, 2.5 % Ficoll 400
Specification Version: PS-N0473S v1.0
Effective Date: 16 May 2014

Assay Name/Specification (minimum release criteria)

DNA Concentration (A260) - The concentration of Quick-Load[®] 50 bp DNA Ladder is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.

Electrophoretic Pattern (Marker) - The banding pattern of Quick-Load[®] 50 bp DNA Ladder on a 3% 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 5 µg of Quick-Load[®] 50 bp 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 16 May 2014

