

## New England Biolabs Certificate of Analysis

**Product Name:** Supercoiled DNA Ladder  
**Catalog Number:** N0472S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10185199  
**Expiration Date:** 03/2025  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N0472S v1.0

Supercoiled DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0472SVIAL	Supercoiled DNA Ladder	10183747	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10175293	Pass

Assay Name/Specification	Lot # 10185199
<b>A260/A280 Assay</b> The ratio of UV absorption of Supercoiled DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>DNA Concentration (A260)</b> The concentration of Supercoiled DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.	Pass
<b>Electrophoretic Pattern (Marker)</b> 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.	Pass
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> 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.	Pass

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

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21 Mar 2023



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10 Apr 2023