

## New England Biolabs Certificate of Analysis

**Product Name:** *Supercoiled DNA Ladder*  
**Catalog #:** *N0472S*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Lot #:** *0021412*  
**Assay Date:** *12/2014*  
**Expiration Date:** *12/2016*  
**Storage Temp:** *-20 °C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N0472S v1.0*  
**Effective Date:** *25 Jun 2014*

Assay Name/Specification (minimum release criteria)	Lot #0021412
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>



Authorized by  
Derek Robinson  
25 Jun 2014



Inspected by  
Vanessa Mathieu-Sheltry  
03 Dec 2014

