

## New England Biolabs Certificate of Analysis

**Product Name:** *TriDye™ 100 bp DNA Ladder*  
**Catalog #:** *N3271S*  
**Concentration:** *50 µg/ml*  
**Unit Definition:** *N/A*  
**Lot #:** *0201704*  
**Assay Date:** *04/2017*  
**Expiration Date:** *4/2019*  
**Storage Temp:** *4°C*  
**Storage Conditions:** *0.006 % Xylene cyanol , 10 mM Tris-HCl (pH 7.9), 10 mM EDTA , 10 % Glycerol , 0.006 % Bromophenol Blue , 0.06 % Orange G*  
**Specification Version:** *PS-N3271S v1.0*  
**Effective Date:** *31 Mar 2017*

Assay Name/Specification (minimum release criteria)	Lot #0201704
<b>DNA Concentration (A260)</b> - The concentration of TriDye™ 100 bp DNA Ladder is between 50 and 55 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Marker)</b> - The banding pattern of TriDye™ 100 bp DNA Ladder on a 1.2% 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 TriDye™ 100 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.	<b>Pass</b>



Authorized by  
Derek Robinson  
31 Mar 2017



Inspected by  
Vanessa Mathieu-Sheltry  
29 Jun 2017

