

## New England Biolabs Certificate of Analysis

**Product Name:** *TriDye™ 100 bp DNA Ladder*  
**Catalog Number:** *N3271S*  
**Concentration:** *50 µg/ml*  
**Unit Definition:** *N/A*  
**Packaging Lot Number:** *10200658*  
**Expiration Date:** *07/2025*  
**Storage Temperature:** *4°C*  
**Storage Conditions:** *0.006 % Xylene cyanol , 10 mM Tris-HCl, 10 mM EDTA , 10 % Glycerol ,  
0.006 % Bromophenol Blue , 0.06 % Orange G, (pH 8.0 @ 25°C)*  
**Specification Version:** *PS-N3271S v2.0*

TriDye™ 100 bp DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3271SVIAL	TriDye™ 100 bp DNA Ladder	10198474	Pass

Assay Name/Specification	Lot # 10200658
<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>

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Vanessa Mathieu-Sheltry  
Production Scientist  
13 Jul 2023



Michael Tonello  
Packaging Quality Control Inspector  
10 Aug 2023