

## New England Biolabs Certificate of Analysis

**Product Name:** 100 bp DNA Ladder  
**Catalog Number:** N3231S  
**Concentration:** 500 µg/ml  
**Unit Definition:** N/A  
**Lot Number:** 10012403  
**Expiration Date:** 04/2020  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3231S/L v1.0

100 bp DNA Ladder Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3231SVIAL	100 bp DNA Ladder	1231804	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10010190	Pass

Assay Name/Specification	Lot # 10012403
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of 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.	Pass
<b>A260/A280 Assay</b> The ratio of UV absorption of 100 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.	Pass
<b>Electrophoretic Pattern (Marker)</b> The banding pattern of 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.	Pass
<b>DNA Concentration (A260)</b> The concentration of 100 bp DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.	Pass

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



Tony Spear-Alfonso  
Production Scientist  
15 Jun 2018



Mary Conlon  
Packaging Quality Control Inspector  
02 Jul 2018