

## 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:** 10025274  
**Expiration Date:** 10/2020  
**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                    | 10025583   | Pass                 |
| B7025SVIAL                       | Gel Loading Dye, Purple (6X), no SDS | 10021087   | Pass                 |

| Assay Name/Specification  | Lot # 10025274 |
|---|----------------|
| <b>A260/A280 Assay</b><br>The ratio of UV absorption of 100 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.   | Pass           |
| <b>DNA Concentration (A260)</b><br>The concentration of 100 bp DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.  | Pass           |
| <b>Electrophoretic Pattern (Marker)</b><br>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>Non-Specific DNase Activity (DNA, 16 hour)</b><br>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           |

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



Tony Spear-Alfonso  
Production Scientist  
05 Sep 2018



Michael Tonello  
Packaging Quality Control Inspector  
09 Nov 2018