

New England Biolabs Certificate of Analysis

Product Name: 100 bp DNA Ladder
Catalog Number: N3231S
Concentration: 500 µg/ml
Unit Definition: N/A
Packaging Lot Number: 10145514
Expiration Date: 02/2024
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 | 10139921 | Pass |
| B7025SVIAL | Gel Loading Dye, Purple (6X), no SDS | 10132771 | Pass |

| Assay Name/Specification | Lot # 10145514 |
|---|----------------|
| Non-Specific DNase Activity (DNA, 16 hour) 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 |
| A260/A280 Assay The ratio of UV absorption of 100 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| DNA Concentration (A260) The concentration of 100 bp DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm. | Pass |
| Electrophoretic Pattern (Marker) 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 |

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 for additional information.



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Production Scientist
25 Mar 2022



Michael Tonello
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25 Mar 2022