

New England Biolabs Certificate of Analysis

Product Name: *Low Molecular Weight DNA Ladder*
Catalog Number: *N3233S*
Concentration: *500 µg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10247099*
Expiration Date: *04/2026*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*
Specification Version: *PS-N3233S/L v1.0*

| Low Molecular Weight DNA Ladder Component List | | | |
|--|--------------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3233SVIAL | Low Molecular Weight DNA Ladder | 10239864 | Pass |
| B7025SVIAL | Gel Loading Dye, Purple (6X), no SDS | 10234723 | Pass |


| Assay Name/Specification | Lot # 10247099 |
|---|----------------|
| A260/A280 Assay The ratio of UV absorption of Low Molecular Weight DNA Ladder at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| DNA Concentration (A260) The concentration of Low Molecular Weight 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 Low Molecular Weight DNA Ladder on a 3% 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 |
| Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Low Molecular Weight 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.

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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02 May 2024



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27 Jun 2024