

New England Biolabs Certificate of Analysis

Product Name: *Lambda DNA*
Catalog Number: *N3011L*
Concentration: *500 µg/ml*
Unit Definition: *N/A*
Lot Number: *10019902*
Expiration Date: *09/2020*
Storage Temperature: *-20°C*
Storage Conditions: *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*
Specification Version: *PS-N3011S/L v2.0*

| Lambda DNA Component List | | | |
|---------------------------|-----------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3011LVIAL | Lambda DNA | 10019911 | Pass |

| Assay Name/Specification | Lot # 10019902 |
|--|----------------|
| A260/A280 Assay The ratio of UV absorption of Lambda DNA at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| DNA Concentration (A260) The concentration of Lambda DNA is between 500 and 550 µg/ml as determined by UV absorption at 260 nm. | Pass |
| Electrophoretic Pattern (Linear DNA) The banding pattern of Lambda DNA on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide. | Pass |
| Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Lambda DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |
| Restriction Digest (Correct Pattern) A 50 µl reaction in NEBuffer 2.1 containing 2.5 µg of Lambda DNA and 20 units of HindIII incubated for 1 hour at 37°C produces the expected pattern of DNA fragments as determined by agarose gel electrophoresis. | Pass |

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



Vanessa Mathieu-Sheltry
Production Scientist
11 Sep 2018



Michael Tonello
Packaging Quality Control Inspector
14 Sep 2018