NEW ENGLAND BioLabs Inc.
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# New England Biolabs
# Certificate of Analysis

| | |
|---|---|
| *Product Name:* | *Lambda DNA (N6-methyladenine-free)* |
| *Catalog Number:* | *N3013L* |
| *Concentration:* | *500 µg/ml* |
| *Unit Definition:* | *N/A* |
| *Packaging Lot Number:* | *10067002* |
| *Expiration Date:* | *01/2022* |
| *Storage Temperature:* | *-20°C* |
| *Storage Conditions:* | *10 mM Tris-HCl (pH 8.0), 1 mM EDTA* |
| *Specification Version:* | *PS-N3013S/L v1.0* |

| **Lambda DNA (N6-methyladenine-free) Component List** | | | |
|---|---|---|---|
| **NEB Part Number** | **Component Description** | **Lot Number** | **Individual QC Result** |
| N3013LVIAL | Lambda DNA (N6-methyladenine-free) | 10065002 | **Pass** |

| **Assay Name/Specification** | **Lot # 10067002** |
|---|---|
| **Restriction Digest (Correct Pattern)**<br>A 50 µl reaction in NEBuffer 2.1 containing 2.5 µg of Lambda DNA (N6-methyladenine-free) 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** |
| **Restriction Digest (Dam Sensitive)**<br>A 50 µl reaction in NEBuffer DpnII containing 2.5 µg of Lambda DNA (N6-methyladenine-free) DNA and a minimum of 10 units of DpnII incubated for 1 hour at 37°C results in complete digestion of the DNA as determined by agarose gel electrophoresis. | **Pass** |
| **Restriction Digest (Dam Resistant)**<br>A 50 µl reaction in CutSmart™ Buffer containing 2.5 µg of Lambda DNA (N6-methyladenine-free) and a minimum of 20 units of DpnI incubated for 1 hour at 37°C results in no detectable digestion of the DNA as determined by agarose gel electrophoresis. | **Pass** |
| **Non-Specific DNase Activity (DNA, 16 hour)**<br>A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Lambda DNA (N6-methyladenine-free) incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | **Pass** |

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| Assay Name/Specification | Lot # 10067002 |
|---|---|
| **Electrophoretic Pattern (Linear DNA)**<br>The banding pattern of Lambda DNA (N6-methyladenine-free) 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** |
| **DNA Concentration (A260)**<br>The concentration of Lambda DNA (N6-methyladenine-free) is between 500 and 550 µg/ml as determined by UV absorption at 260 nm. | **Pass** |
| **A260/A280 Assay**<br>The ratio of UV absorption of Lambda DNA (N6-methyladenine-free) at 260 and 280 nm is between 1.8 and 2.0. | **Pass** |

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

Vanessa Mathieu-Sheltry
Production Scientist
22 Jan 2020

Jay Minichiello
Packaging Quality Control Inspector
05 Feb 2020