

New England Biolabs Certificate of Analysis

Product Name: Lambda DNA (N6-methyladenine-free)

Catalog #: N3013S/L
Concentration: $500 \mu g/ml$ Unit Definition: N/A
Lot #: 0481407
Assay Date: 07/2014
Expiration Date: 07/2016
Storage Temp: $-20 \,^{\circ}\text{C}$

Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA

Specification Version: PS-N3013S/L v1.0
Effective Date: 14 Jul 2014

| Assay Name/Specification (minimum release criteria) | Lot #0481407 |
|---|--------------|
| A260/A280 Assay - The ratio of UV absorption of Lambda DNA (N6-methyladenine-free) at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| DNA Concentration (A260) - The concentration of Lambda DNA (N6-methyladenine-free) 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 (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 |
| Non-Specific DNase Activity (DNA, 16 hour) - A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of Lambda DNA (N6-methyladenine-free) 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 (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 Resistant) - A 50 μl reaction in CutSmart TM 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 |
| Restriction Digest (Dam Sensitive) - 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 |

Authorized by Derek Robinson 14 Jul 2014







Inspected by

Vanessa Mathieu-Sheltry

23 Jul 2014