

New England Biolabs Certificate of Analysis

Product Name: *Lambda DNA (N6-methyladenine-free)*
Catalog Number: *N3013S*
Concentration: *500 µg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10067003*
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
N3013SVIAL	Lambda DNA (N6-methyladenine-free)	10064941	Pass

Assay Name/Specification	Lot # 10067003
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 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
Restriction Digest (Dam Resistant) 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
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

Assay Name/Specification	Lot # 10067003
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>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.</p>	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