

## New England Biolabs Certificate of Analysis

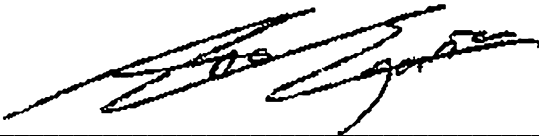
**Product Name:** *Lambda DNA (N<sup>6</sup>-methyladenine-free)*  
**Catalog Number:** *N3013L*  
**Concentration:** *500 µg/ml*  
**Unit Definition:** *N/A*  
**Lot Number:** *10007983*  
**Expiration Date:** *04/2020*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl (pH 8.0), 1 mM EDTA*  
**Specification Version:** *PS-N3013S/L v1.0*

Lambda DNA (N <sup>6</sup> -methyladenine-free) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3013LVIAL	Lambda DNA (N <sup>6</sup> -methyladenine-free)	0501804	Pass

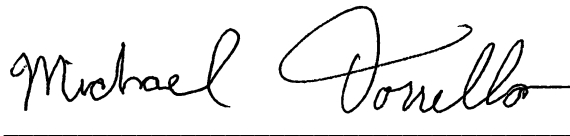
Assay Name/Specification	Lot # 10007983
<b>Restriction Digest (Correct Pattern)</b> A 50 µl reaction in NEBuffer 2.1 containing 2.5 µg of Lambda DNA (N <sup>6</sup> -methyladenine-free) DNA and 20 units of HindIII incubated for 1 hour at 37°C produces the expected pattern of DNA fragments as determined by agarose gel electrophoresis.	Pass
<b>Restriction Digest (Dam Resistant)</b> A 50 µl reaction in CutSmart™ Buffer containing 2.5 µg of Lambda DNA (N <sup>6</sup> -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
<b>Restriction Digest (Dam Sensitive)</b> A 50 µl reaction in NEBuffer DpnII containing 2.5 µg of Lambda DNA (N <sup>6</sup> -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
<b>A260/A280 Assay</b> The ratio of UV absorption of Lambda DNA (N <sup>6</sup> -methyladenine-free) at 260 and 280 nm is between 1.8 and 2.0.	Pass

Assay Name/Specification	Lot # 10007983
<p><b>DNA Concentration (A260)</b> The concentration of Lambda DNA (N6-methyladenine-free) is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.</p>	<b>Pass</b>
<p><b>Electrophoretic Pattern (Linear DNA)</b> 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>	<b>Pass</b>
<p><b>Non-Specific DNase Activity (DNA, 16 hour)</b> 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>	<b>Pass</b>

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



Ana Egana  
Production Scientist  
10 May 2018



Michael Tonello  
Packaging Quality Control Inspector  
10 May 2018