

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	Lambda DNA (Nº-methyladenine-free)
Catalog Number:	N3013L
Concentration:	500 μg/ml
Unit Definition:	N/A
Lot Number:	10032407
Expiration Date:	12/2020
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCI (pH 8.0), 1 mM EDTA
Specification Version:	PS-N3013S/L v1.0

Lambda DNA (N <sup>6</sup> -methyladenine-free) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
N3013LVIAL	Lambda DNA (N <sup>e</sup> -methyladenine-free)	10032419	Pass	

Assay Name/Specification	Lot # 10032407
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
<b>Restriction Digest (Dam Sensitive)</b> 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
<b>A260/A280 Assay</b> The ratio of UV absorption of Lambda DNA (N6-methyladenine-free) at 260 and 280 nm is between 1.8 and 2.0.	Pass
<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.	Pass
Electrophoretic Pattern (Linear DNA) The banding pattern of Lambda DNA (N6-methyladenine-free) on a 1.2% agarose gel is	Pass





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Assay Name/Specification	Lot # 10032407
evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.	
<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.	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

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

Nulhimha

Vanessa Mathieu-Sheltry Production Scientist 19 Dec 2018

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Michael Tonello Packaging Quality Control Inspector 07 Jan 2019

