![New England BioLabs Inc. logo] **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 (N⁶-methyladenine-free)
Catalog Number:	N3013S
Concentration:	500 µg/ml
Unit Definition:	N/A
Lot Number:	10019247
Expiration Date:	08/2020
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 (N⁶-methyladenine-free) Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
N3013SVIAL	Lambda DNA (N⁶-methyladenine-free)	10019248	Pass

Assay Name/Specification	Lot # 10019247
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 37ºC 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	Pass

![ISO 9001 Registered Quality Management] ![ISO 13485 Registered Medical Devices] ![ISO 14001 Registered Environmental Management]

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Assay Name/Specification	Lot # 10019247
electrophoresis.	
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**
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**

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

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Vanessa Mathieu-Sheltry
Production Scientist
15 Aug 2018

_____
Michael Tonello
Packaging Quality Control Inspector
15 Aug 2018

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