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New England Biolabs Certificate of Analysis

Product Name: Lambda DNA (Nº-methyladenine-free)

Catalog Number:N3013LConcentration:500 μg/mlUnit Definition:N/A

 Lot Number:
 10055063

 Expiration Date:
 09/2021

Expiration Date: 09/2021
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 ⁶ -methyladenine-free) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3013LVIAL	Lambda DNA (N ^e -methyladenine-free)	10055065	Pass	

Assay Name/Specification	Lot # 10055063
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	Pass



N3013L / Lot: 10055063

Page 1 of 2

Assay Name/Specification	Lot # 10055063
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.

Vanessa Mathieu-Sheltry Production Scientist

12 Sep 2019

Michael Tonello

Packaging Quality Control Inspector

07 Oct 2019

