NEW ENGLAND BioLabs Inc.
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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:	*10058088*
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 (N6-methyladenine-free) Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
N3013SVIAL	Lambda DNA (N6-methyladenine-free)	10055064	**Pass**

Assay Name/Specification	**Lot # 10058088**
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**
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**
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**

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Assay Name/Specification	Lot # 10058088
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**
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**

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
02 Jan 2020