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New England Biolabs Certificate of Analysis

Product Name: Lambda DNA (dam-)

Catalog Number:N3013SConcentration:500 μg/ml

Unit Definition: N/A
Packaging Lot Number: 10207172

Expiration Date: 06/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA

Specification Version: PS-N3013S/L v2.0

Lambda DNA (dam-) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3013SVIAL	Lambda DNA (dam-)	10197582	Pass	

Assay Name/Specification	Lot # 10207172
A260/A280 Assay The ratio of UV absorption of Lambda DNA (dam-) at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of Lambda DNA (dam-) 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 (dam-) 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 (dam-) 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 (dam-) 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



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Assay Name/Specification	Lot # 10207172
Restriction Digest (Dam Resistant) A 50 µl reaction in CutSmart™ Buffer containing 2.5 µg of Lambda DNA (dam-) 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 (dam-) 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Vanessa Mathieu-Sheltry Production Scientist

23 Jun 2023

Michael Tonello

Packaging Quality Control Inspector

20 Sep 2023



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