NEW ENGLAND BioLabs Inc.
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 (dam-)*
Catalog Number:	*N3013L*
Concentration:	*500 µg/ml*
Unit Definition:	*N/A*
Packaging Lot Number:	*10198161*
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**
N3013LVIAL	Lambda DNA (dam-)	10197583	**Pass**

Assay Name/Specification	**Lot # 10198161**
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 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 (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**

NEW ENGLAND BioLabs Inc.
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

Assay Name/Specification	Lot # 10198161
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
05 Jul 2023