

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: Apol-HF®
Catalog Number: R3566L
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37 degrees C in a total reaction volume

of 50 μL

Lot Number: 10010502
Expiration Date: 08/2020
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R3566S/L v1.0

Apol-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3566LVIAL	Apol-HF®	10010503	Pass	
B7204SVIAL	CutSmart® Buffer	10013537	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	0261805	Pass	

Assay Name/Specification	Lot # 10010502
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Apol-HF, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of Apol-HF incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and 1 μl of Apol-HF incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Apol-HF, >95% of the DNA fragments	Pass



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

Tony Spear-Alfonso Production Scientist

10 Jul 2018

Michael Tonello

Packaging Quality Control Inspector

02 Aug 2018



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