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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

Packaging Lot Number: 10157941
Expiration Date: 06/2024
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®	10152576	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10156431	Pass
B6004SVIAL	rCutSmart™ Buffer	10156430	Pass

Assay Name/Specification	Lot # 10157941
Protein Purity Assay (SDS-PAGE)	Pass
Apol-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
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 can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Apol-HF.	Pass
Non-Specific DNase Activity (16 Hour)	Pass
A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and a minimum of	
100 units of Apol-HF incubated for 16 hours at 37°C results in a DNA pattern free of	



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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.

Penghaa Zhang Production Scientist

24 Aug 2022

Erin Varney

Packaging Quality Control Inspector

24 Aug 2022



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