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New England Biolabs Certificate of Analysis

Product Name: ApaLI
Catalog Number: R0507L
Concentration: 10,000 U/ml

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

of Lambda DNA (Hind III digest) in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10069240
Expiration Date: 03/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0507S/L v1.0

ApaLI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0507LVIAL	ApaLI	10069238	Pass	
B7204SVIAL	CutSmart® Buffer	10068805	Pass	

Assay Name/Specification	Lot # 10069240
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [3H] E. coli DNA and a minimum of 100 units of ApaLI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled M13mp19 DNA and a minimum of 50 Units of ApaLl incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda-HindIII DNA with ApaLI, >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 ApaLI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 100 Units of ApaLI incubated for 16 hours at 37°C results in a DNA	Pass



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Stephani Onetto

Assay Name/Specification	Lot # 10069240
pattern free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	

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

Stephanie Cornelio **Production Scientist** 05 Mar 2020

Josh Hersey

Packaging Quality Control Inspector

23 Mar 2020

