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New England Biolabs Certificate of Analysis

Product Name: AleI-v2
Catalog Number: R0685L
Concentration: 10,000 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°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10079333

Expiration Date: 07/2021

Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 200 µg/ml BSA,

50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-R0685S/L v1.0

Alel-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0685LVIAL	Alel-v2	10079332	Pass	
B7204SVIAL	CutSmart® Buffer	10065748	Pass	

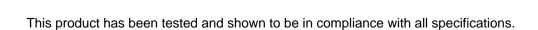
Assay Name/Specification	Lot # 10079333
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Alel-v2, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Alel-v2.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 50 units of Alel-v2 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled pBR322 DNA and a minimum of 30 units of Alel-v2 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	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 Alel-v2 incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass



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Stephani Onetto



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Stephanie Cornelio Production Scientist 31 Aug 2020 Josh Hersey
Packaging Quality

Packaging Quality Control Inspector

31 Aug 2020