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New England Biolabs Certificate of Analysis

Product Name: Ahdl
Catalog Number: R0584S
Concentration: 10,000 U/ml

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

Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 10047258
Expiration Date: 06/2021
Storage Temperature: -20°C

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

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0584S/L v2.0

Ahdl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0584SVIAL	Ahdl	10047259	Pass	
B7204SVIAL	CutSmart® Buffer	10043351	Pass	

Assay Name/Specification	Lot # 10047258
Exonuclease Activity (Radioactivity Release)	Pass
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 30 units of AhdI incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with Ahdl, 95% can be recut with Ahdl.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of	
10 units of AhdI incubated for 16 hours at 37°C results in a DNA 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.



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Doreen Duquette Production Scientist 21 May 2019

Jay Minichiello

Packaging Quality Control Inspector

21 Jun 2019

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