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New England Biolabs Certificate of Analysis

Product Name: Ahdl
Catalog Number: R0584L
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.

Packaging Lot Number: 10091727
Expiration Date: 09/2022
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	
R0584LVIAL	Ahdl	10084458	Pass	
B7204SVIAL	CutSmart® Buffer	10089402	Pass	

Assay Name/Specification	Lot # 10091727
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 30 units of AhdI incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	
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 Ahdl incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with Ahdl, 95% can be recut with Ahdl.	

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.



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Penghua Zhang Production Scientist 22 Nov 2020

Michael Tonello

Packaging Quality Control Inspector

22 Nov 2020