

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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.
Packaging Lot Number:	10118331
Expiration Date:	08/2023
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	10118328	Pass	
B6004SVIAL	rCutSmart™ Buffer	10114154	Pass	

Assay Name/Specification	Lot # 10118331
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [ <sup>3</sup> H] 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.

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** 31 Aug 2021

Josh Hersey Packaging Quality Control Inspector 31 Aug 2021

