

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.
Lot Number:	10015352
Expiration Date:	07/2020
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0584SVIAL	Ahdl	10015353	Pass	
B7204SVIAL	CutSmart® Buffer	10013536	Pass	

Assay Name/Specification	Lot # 10015352
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.





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