

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 | | | | |
|------------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | 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 [³ 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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