

New England Biolabs Certificate of Analysis

Product Name: *AhdI*
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.*
Lot Number: *10041022*
Expiration Date: *04/2021*
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*

AhdI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0584LVIAL	AhdI	10041024	Pass
B7204SVIAL	CutSmart® Buffer	10036669	Pass

Assay Name/Specification	Lot # 10041022
Exonuclease Activity (Radioactivity Release) 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.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with AhdI, 95% can be recut with AhdI.	Pass
Non-Specific DNase Activity (16 Hour) 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.	Pass

This product has been tested and shown to be in compliance with all specifications.

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
27 Mar 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
08 May 2019