

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:	Acll
Catalog Number:	R0598L
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10096333
Expiration Date:	01/2023
Storage Temperature:	-20°C
Storage Conditions:	100 mM KCl , 10 mM Tris-HCl (7.4), 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol , 200 μg/ml BSA
Specification Version:	PS-R0598S/L v1.0

Acll Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0598LVIAL	AclI	10096334	Pass	
B7204SVIAL	CutSmart® Buffer	10091036	Pass	

Assay Name/Specification	Lot # 10096333
Protein Purity Assay (SDS-PAGE)	Pass
Acll is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
15 units of AclI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
delectable nuclease degradation as determined by agarose ger electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with AcII, >95% of the DNA fragments	
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Acll.	
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 50 units of AclI incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	

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





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