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New England Biolabs Certificate of Analysis

Product Name: Accl
Catalog Number: R0161S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10061327
Expiration Date: 12/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0161S/L v1.0

Accl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0161SVIAL	Accl	10061325	Pass	
B7204SVIAL	CutSmart® Buffer	10061299	Pass	

Assay Name/Specification	Lot # 10061327
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Accl, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled LITMUS28i DNA and a minimum of 100 Units of Accl incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of Accl 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 Accl, >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 Accl.	Pass



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

Stephanie Cornelio
Production Scientist

Stephani Onetto

05 Dec 2019

Jay Minichiello

Packaging Quality Control Inspector

10 Jan 2020

