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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: 10084364
Expiration Date: 09/2022
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0161SVIAL	Accl	10084365	Pass	
B7204SVIAL	CutSmart® Buffer	10089402	Pass	

Assay Name/Specification	Lot # 10084364
Blue-White Screening (Terminal Integrity)	Pass
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.	
Protein Purity Assay (SDS-PAGE)	Pass
Accl 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	
100 Units of Accl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
detectable madease asylvadament as acternimos by againese generalism opiniones.	
Ligation and Recutting (Terminal Integrity)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass



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

conversion to the nicked form as determined by agarose gel electrophoresis.

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Penghua Zhang Production Scientist

28 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

28 Nov 2020



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