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## New England Biolabs Certificate of Analysis

Product Name: Acc65I
Catalog Number: R0599L
Concentration: 10,000 U/ml

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

of pBC4 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10063596 Expiration Date: 01/2022 Storage Temperature: -20°C

Storage Conditions: 100 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-R0599S/L v1.0

Acc65I Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0599LVIAL	Acc65I	10063595	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053974	Pass	

Assay Name/Specification	Lot # 10063596
Blue-White Screening (Terminal Integrity) A sample of Litmus28i vector linearized with a 10-fold excess of Acc65I, 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 NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 Units of Acc65l 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 NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 100 units of Acc65l incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity)  After a 20-fold over-digestion of pBC4 DNA with Acc65I, >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 Acc65I.	Pass



R0599L / Lot: 10063596

Page 1 of 2

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

detectable nuclease degradation as determined by agarose gel electrophoresis.

Stephanie Cornelio Production Scientist

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07 Jan 2020

**J**ay Minichiello

Packaging Quality Control Inspector

13 Feb 2020

