

*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:	Acc65I
Catalog Number:	R0599L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of pBC4 DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Lot Number:	10027592
Expiration Date:	11/2020
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0599LVIAL	Acc65I	10027593	Pass	
B7203SVIAL	NEBuffer™ 3.1	10021112	Pass	

Assay Name/Specification	Lot # 10027592
<b>Blue-White Screening (Terminal Integrity)</b> 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
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 Units of Acc65I incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of Acc65I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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





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Assay Name/Specification	Lot # 10027592
Non-Specific DNase Activity (16 Hour)	Pass
A 50 $\mu$ I reaction in NEBuffer 3.1 containing 1 $\mu$ g of pBC4 DNA and a minimum of 100	Pass
Units of Acc65I incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	

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

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Stephanie Cornelio Production Scientist 06 Nov 2018

Michae 011.

Michael Tonello Packaging Quality Control Inspector 21 Nov 2018

