

New England Biolabs Certificate of Analysis

Product Name: *BclI*
Catalog Number: *R0160S*
Concentration: *10,000 U/ml*
Unit Definition: *One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA (dam-) in 1 hour at 50°C in a total reaction volume of 50 µl.*
Packaging Lot Number: *10167746*
Expiration Date: *10/2024*
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-R0160S/L v1.0*

BclI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0160SVIAL	BclI	10167744	Pass
B6003SVIAL	NEBuffer™ r3.1	10146826	Pass

Assay Name/Specification	Lot # 10167746
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of BclI incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda dam- DNA and a minimum of 30 units of BclI incubated for 16 hours at 50°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda dam- DNA with BclI, >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 BclI.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.


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18 Oct 2022


Michael Tonello

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Packaging Quality Control Inspector
24 Oct 2022