

## 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:** *10100443*  
**Expiration Date:** *12/2022*  
**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-R0160S/L v1.0*

| BclI Component List |                       |            |                      |
|---------------------|-----------------------|------------|----------------------|
| NEB Part Number     | Component Description | Lot Number | Individual QC Result |
| R0160SVIAL          | BclI                  | 10093498   | Pass                 |
| B7203SVIAL          | NEBuffer™ 3.1         | 10092686   | Pass                 |

| Assay Name/Specification  | Lot # 10100443 |
|---|----------------|
| <b>Non-Specific DNase Activity (16 Hour)</b><br>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           |
| <b>Exonuclease Activity (Radioactivity Release)</b><br>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 BclI incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.        | Pass           |
| <b>Ligation and Recutting (Terminal Integrity)</b><br>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.

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04 Mar 2021



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