

## 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:** *10070641*  
**Expiration Date:** *03/2022*  
**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	10067208	Pass
B7203SVIAL	NEBuffer™ 3.1	10053976	Pass

Assay Name/Specification	Lot # 10070641
<p><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 BclI incubated for 4 hours at 50°C releases &lt;0.1% of the total radioactivity.</p>	Pass
<p><b>Ligation and Recutting (Terminal Integrity)</b>            After a 20-fold over-digestion of Lambda dam- DNA with BclI, &gt;95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, &gt;95% can be recut with BclI.</p>	Pass
<p><b>Non-Specific DNase Activity (16 Hour)</b>            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.</p>	Pass

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



Penghua Zhang  
Production Scientist  
09 Jul 2020



Josh Hersey  
Packaging Quality Control Inspector  
09 Jul 2020