

New England Biolabs Certificate of Analysis

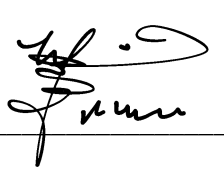
Product Name: BclI-HF[®]
Catalog Number: R3160S
Concentration: 20,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of 50 µl.
Lot Number: 10011639
Expiration Date: 06/2020
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 500 µg/ml BSA, (pH 7.4 @ 25°C)
Specification Version: PS-R3160S/L v1.0

BclI-HF [®] Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3160SVIAL	BclI-HF [®]	10011640	Pass
B7204SVIAL	CutSmart [®] Buffer	3081804	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	0231804	Pass

Assay Name/Specification	Lot # 10011639
Protein Purity Assay (SDS-PAGE) BclI-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of Lambda dam- DNA and a minimum of 60 units of BclI-HF incubated for 16 hours at 37°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-HF, >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-HF.	Pass
Functional Testing (15 minute Digest) A 50 µl reaction in CutSmart [®] Buffer containing 1 µg of Lambda dam- DNA and 1 µl of	Pass

Assay Name/Specification	Lot # 10011639
<p>BclI-HF incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.</p> <p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart[®] Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of BclI-HF incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	<p>Pass</p>

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

Anthony Francis
Production Scientist
28 Jun 2018



Josh Hersey
Packaging Quality Control Inspector
02 Jul 2018