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New England Biolabs Certificate of Analysis

Product Name: BseRI
Catalog Number: R0581S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 1002758
Expiration Date: 11/2020
Storage Temperature: -20°C

Storage Conditions: 50 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-R0581S/L v1.0

BseRI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0581SVIAL	BseRI	10027587	Pass	
B7204SVIAL	CutSmart® Buffer	10021117	Pass	

Assay Name/Specification	Lot # 10027586
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BseRI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with BseRI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of BseRI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 25 units of BseRI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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



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Tony Spear-Alfonso Production Scientist 23 Oct 2018

Michael Tonello

Packaging Quality Control Inspector

20 Nov 2018