

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: BsaHI
Catalog Number: R0556S
Concentration: 10,000 U/ml

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

of Lambda DNA in rCutSmart Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10215305 Expiration Date: 12/2025 Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.15% Triton X-100, 200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0556S v2.0

BsaHl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0556SVIAL	BsaHl	10215292	Pass	
B6004SVIAL	rCutSmart™ Buffer	10209244	Pass	

Assay Name/Specification	Lot # 10215305
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 100 units of BsaHI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of BsaHI incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsaHI, >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 BsaHI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 units of BsaHl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



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

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YunJie Suń

Production Scientist

03 Nov 2023

Michael Tonello

Packaging Quality Control Inspector

20 Dec 2023



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