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New England Biolabs Certificate of Analysis

Product Name: BsrFl-v2
Catalog Number: R0682S
Concentration: 10,000 U/ml

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

of pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10101008
Expiration Date: 03/2022
Storage Temperature: -20°C

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

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

Specification Version: PS-R0682S/L v2.0

BsrFI-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0682SVIAL	BsrFI-v2	10101007	Pass	
B7204SVIAL	CutSmart® Buffer	10097266	Pass	

Assay Name/Specification	Lot # 10101008
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 30 units of BsrFI-v2 incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) BsrFI-v2 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 pBR322 DNA and a minimum of 10 units of BsrFl-v2 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of pBR322 DNA and 1 μl of BsrFl-v2 incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass



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fragments, >95% can be recut with BsrFI-v2.

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Pengha Zhang Production Scientist

15 Mar 2021

Josh Hersey

Packaging Quality Control Inspector

15 Mar 2021



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