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## New England Biolabs Certificate of Analysis

Product Name: BsrBl
Catalog Number: R0102L
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 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10100954 Expiration Date: 02/2023 Storage Temperature: -20°C

Storage Conditions: 100 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-R0102S/L v1.0

BsrBI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0102LVIAL	BsrBI	10098879	Pass	
B7204SVIAL	CutSmart® Buffer	10096304	Pass	

Assay Name/Specification	Lot # 10100954
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 30 units of BsrBl 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 50 units of BsrBl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity)  After a 10-fold over-digestion of Lambda DNA with BsrBI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~50% can be recut with BsrBI.	Pass

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.



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Penghua Zhang **Production Scientist** 

16 Mar 2021

Josh Hersey Packaging Ou 16 Mar 2021 ality Control Inspector

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