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New England Biolabs Certificate of Analysis

Product Name: Nb.BssSI
Catalog Number: R0681T
Concentration: 100,000 U/ml

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

of pUC19 DNA in NEBuffer 3.1 incubated for 1 hour at 37°C in a

total reaction volume of 50 μl.

Packaging Lot Number: 10235646
Expiration Date: 02/2026
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol , 500 μ g/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0681M v1.0

Nb.BssSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0681TVIAL	Nb.BssSI	10228178	Pass	
B6003SVIAL	NEBuffer™ r3.1	10227734	Pass	

Assay Name/Specification	Lot # 10235646
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Nb.BssSl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Measured Activity (Restriction Endonuclease) The measured activity of Nb.BssSl is complete at 100,000 units/ml and incomplete at 200,000 units/ml.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pUC19 DNA and a minimum of 20 units of Nb.BssSl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass
Protein Purity Assay (SDS-PAGE)	Pass



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Assay Name/Specification	Lot # 10235646
Nb.BssSl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	
detection.	

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.

Ana Egana
Production Scientist

06 Mar 2024

Michael Tonello

Packaging Quality Control Inspector

06 Mar 2024



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