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New England Biolabs Certificate of Analysis

Product Name: Nb.BssSI
Catalog Number: R0681S
Concentration: 20,000 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: 10065668
Expiration Date: 02/2022
Storage Temperature: -20°C

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

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

Specification Version: PS-R0681S v2.0

Nb.BssSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0681SVIAL	Nb.BssSI	10065667	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053974	Pass	

Assay Name/Specification	Lot # 10065668
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.BssSI is complete at 20,000 units/ml and incomplete at 40,000 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 # 10065668
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.

Penghua Zhang Production Scientist

13 Feb 2020

Minichiello Minichiello

Packaging Quality Control Inspector

13 Mar 2020

