

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	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 μ g of pUC19 DNA in NEBuffer 3.1 incubated for 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10155329
Expiration Date:	06/2024
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-R0681M v1.0

Nb.BssSI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0681TVIAL	Nb.BssSI	10155330	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146823	Pass	

Assay Name/Specification	Lot # 10155329
Protein Purity Assay (SDS-PAGE) Nb.BssSI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Measured Activity (Restriction Endonuclease) The measured activity of Nb.BssSI 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
Exonuclease Activity (Radioactivity Release) A 50 μI reaction in NEBuffer 3.1 containing 1 μg of a mixture of single and	Pass





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Assay Name/Specification	Lot # 10155329
double-stranded [³ H] E. coli DNA and a minimum of 200 units of Nb.BssSI incubated	
for 4 hours at 37°C releases <0.1% of the total radioactivity.	

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.

Penghua Zhang

Penghua Zhang Production Scientist 27 Jun 2022

Michae

Michael Tonello Packaging Quality Control Inspector 27 Jun 2022

