

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: 10097961
Expiration Date: 10/2022
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-R0681M v1.0

Nb.BssSI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0681TVIAL	Nb.BssSI	10088502	Pass
B7203SVIAL	NEBuffer™ 3.1	10092685	Pass

Assay Name/Specification	Lot # 10097961
<p>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.BssSI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Measured Activity (Restriction Endonuclease) The measured activity of Nb.BssSI is complete at 100,000 units/ml and incomplete at 200,000 units/ml.</p>	Pass
<p>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.BssSI 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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE)</p>	Pass

Assay Name/Specification	Lot # 10097961
Nb.BssSI is \geq 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.



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01 Feb 2021



Michael Tonello
Packaging Quality Control Inspector
01 Feb 2021