

New England Biolabs Certificate of Analysis

Product Name: BstNI
Catalog Number: R0168S
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 60°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10070421
Expiration Date: 03/2022
Storage Temperature: -20°C
Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA
Specification Version: PS-R0168S/L v1.0

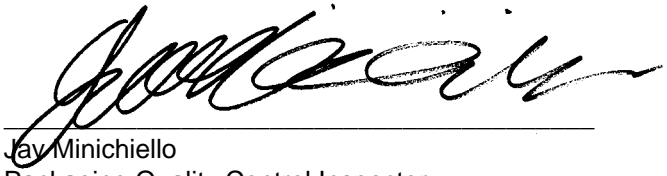
BstNI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0168SVIAL	BstNI	10068453	Pass
B7203SVIAL	NEBuffer™ 3.1	10053976	Pass

Assay Name/Specification	Lot # 10070421
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of BstNI incubated for 4 hours at 60°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with BstNI, 95% can be recut with BstNI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 30 Units of BstNI incubated for 16 hours at 60°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

This product has been tested and shown to be in compliance with all specifications.



Penghua Zhang
Production Scientist
27 Apr 2020



Jay Minichiello
Packaging Quality Control Inspector
27 Apr 2020