

New England Biolabs Certificate of Analysis

Product Name: BstNI
Catalog Number: R0168L
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: 10118174
Expiration Date: 08/2023
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 |
| R0168LVIAL | BstNI | 10118175 | Pass |
| B6003SVIAL | NEBuffer™ r3.1 | 10110766 | Pass |

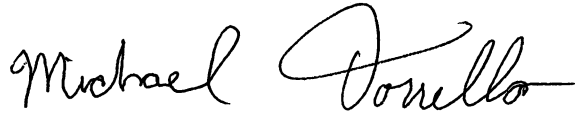
| Assay Name/Specification | Lot # 10118174 |
|---|----------------|
| Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with BstNI, 95% can be recut with BstNI. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of 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 |
| 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 |

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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Production Scientist
24 Aug 2021



Michael Tonello
Packaging Quality Control Inspector
24 Aug 2021