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New England Biolabs Certificate of Analysis

Product Name:BstXICatalog Number:R0113SConcentration: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 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10110118
Expiration Date: 05/2023
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0113S/L v1.0

BstXI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0113SVIAL	BstXI	10107826	Pass	
B6003SVIAL	NEBuffer™ r3.1	10103929	Pass	

Assay Name/Specification	Lot # 10110119
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 100 units of BstXI incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled pUC19 DNA and a minimum of 50 units of BstXl incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of Lambda DNA with BstXI, >95% of the DNA fragments	
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BstXI.	
New Constitution And Street (40 Hours)	Date:
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of Lambda DNA and a minimum of 100	Pass
Units of BstXI incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	



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

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Penghaa Zhang Production Scientist

17 Jun 2021

Michael Tonello

Packaging Quality Control Inspector

17 Jun 2021