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New England Biolabs Certificate of Analysis

Product Name: Nt.BstNBI
Catalog Number: R0607L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

T7 DNA in 1 hour at 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10154640
Expiration Date: 06/2024
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-R0607S/L v1.0

Nt.BstNBI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0607LVIAL	Nt.BstNBI	10154639	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146824	Pass	

Assay Name/Specification	Lot # 10154640
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of T7 DNA and a minimum of 10 Units	Pass
of Nt.BstNBI incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
detectable nuclease degradation as determined by agarose general opinionesis.	
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of T7 DNA with Nt.BstNBI, >95% of the DNA fragments	Pass
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Nt.BstNBI.	
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 50 units of Nt.BstNBI incubated	
for 4 hours at 55°C releases <0.1% of the total radioactivity.	
Protein Purity Assay (SDS-PAGE)	Pass
Nt.BstNBI is >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.



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Penghua Zhang Production Scientist

14 Jun 2022

Erin Varney

Packaging Quality Control Inspector

14 Jun 2022



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