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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 NEBuffer r3.1 in 1 hour at 55°C in a total reaction volume

of 50 µl.

Packaging Lot Number: 10207162
Expiration Date: 09/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200

μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0607S/L v2.0

Nt.BstNBI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0607LVIAL	Nt.BstNBI	10206388	Pass	
B6003SVIAL	NEBuffer™ r3.1	10182164	Pass	

Assay Name/Specification	Lot # 10207162
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer™ r3.1 containing 1 μg of a mixture of single and 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.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of T7 DNA with Nt.BstNBI, >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 Nt.BstNBI.	Pass
Non-Specific DNase Activity (16 hour) A 50 μl reaction in NEBuffer™ r3.1 containing 1 μg of T7 DNA and a minimum of 10 units 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. 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.	Pass



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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.

YunJie Sun \
Production Scientist

20 Sep 2023

genome.

Michael Tonello

Packaging Quality Control Inspector

13 Oct 2023



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