

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: Nt.BstNBI
Catalog Number: R0607S
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: 1011617
Expiration Date: 07/2023
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-R0607S/L v1.0

Nt.BstNBI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0607SVIAL	Nt.BstNBI	10116172	Pass	
B6003SVIAL	NEBuffer™ r3.1	10117885	Pass	

Assay Name/Specification	Lot # 10116171
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 of Nt.BstNBl incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Nt.BstNBI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 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

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



R0607S / Lot: 10116171

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.

Penghua Zhang Production Scientist

03 Sep 2021

Michael Tonello

Packaging Quality Control Inspector

03 Sep 2021

R0607S / Lot: 10116171

Page 2 of 2