

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: WarmStart® Nt.BstNBI

Catalog Number: R0725S
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: 10230421
Expiration Date: 12/2025
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-R0725S v1.0

WarmStart® Nt.BstNBI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0725SVIAL	WarmStart® Nt.BstNBI	10217827	Pass	
B6003SVIAL	NEBuffer™ r3.1	10221488	Pass	

Assay Name/Specification	Lot # 10230421
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 WarmStart® Nt.BstNBI	Pass
incubated for 4 hours at 55°C releases <0.1% of the total radioactivity. Functional Testing (WarmStart Inhibition)	Pass
A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of T7 DNA and a minimum of 10 units of WarmStart® Nt.BstNBI incubated for 1 hour at 25°C results in <5% digestion of the DNA as determined by agarose gel electrophoresis.	1 433
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 WarmStart® 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	Pass
this enzyme.	



R0725S / Lot: 10230421

Page 1 of 2

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

coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E.

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 Suń

coli genome.

Production Scientist

18 Dec 2023

Michael Tonello

Packaging Quality Control Inspector

02 Feb 2024



R0725S / Lot: 10230421

Page 2 of 2