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## 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: 10238164
Expiration Date: 03/2026
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0725SVIAL	WarmStart® Nt.BstNBI	10232766	Pass	
B6003SVIAL	NEBuffer™ r3.1	10227734	Pass	

Assay Name/Specification	Lot # 10238164
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [ 3H] E. coli DNA and a minimum of 50 units of WarmStart® Nt.BstNBI	
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.	
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Non-Specific DNase Activity (16 hour)	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 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.	



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Assay Name/Specification	Lot # 10238164
Protein Purity Assay (SDS-PAGE)  Nt.BstNBI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
qPCR DNA Contamination (E. coli Genomic)  A minimum of 10 units of WarmStart® Nt.BstNBI is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass

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.

Ana Egana Production Scientist 28 Mar 2024 Michael Tonello

Packaging Quality Control Inspector

28 Mar 2024



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