

New England Biolabs Certificate of Analysis

Product Name: Nb.BtsI
Catalog Number: R0707S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled PhiX174 RF I DNA to open circular form in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10182596
Expiration Date: 03/2025
Storage Temperature: -20°C
Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA
Specification Version: PS-R0707S/L v2.0

Nb.BtsI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0707SVIAL	Nb.BtsI	10182594	Pass
B6004SVIAL	rCutSmart™ Buffer	10179339	Pass

Assay Name/Specification	Lot # 10182596
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of Nb.BtsI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of PhiX174 DNA and a minimum of 10 Units of Nb.BtsI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Nb.BtsI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	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.


YunJie Sun
Production Scientist
17 Mar 2023


Michael Tonello
Packaging Quality Control Inspector
20 Mar 2023