

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.*
Lot Number: *10047825*
Expiration Date: *06/2021*
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	10047391	Pass
B7204SVIAL	CutSmart® Buffer	10043914	Pass

Assay Name/Specification	Lot # 10047825
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.

Ben Penta

Ben Penta
Production Scientist
20 Jun 2019

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
01 Jul 2019