

New England Biolabs Certificate of Analysis

Product Name: Nb.BsmI
Catalog Number: R0706S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pBR322 DNA to open circular form in 1 hour at 65°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10077832
Expiration Date: 07/2022
Storage Temperature: -20°C
Storage Conditions: 100 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-R0706S/L v2.0

Nb.BsmI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0706SVIAL	Nb.BsmI	10077831	Pass
B7203SVIAL	NEBuffer™ 3.1	10072160	Pass

Assay Name/Specification	Lot # 10077832
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of Nb.BsmI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBR322 DNA and a minimum of 10 Units of Nb.BsmI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



Penghua Zhang
Production Scientist
21 Jul 2020



Michael Tonello
Packaging Quality Control Inspector
21 Jul 2020