

New England Biolabs Certificate of Analysis

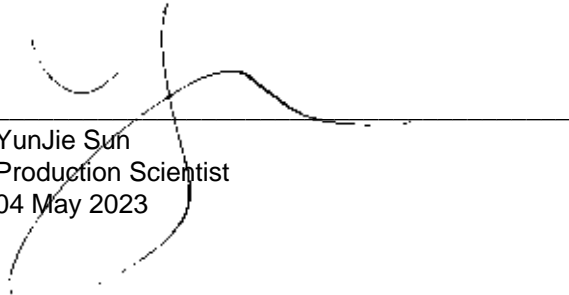
Product Name: *Nb.BsmI*
Catalog Number: *R0706S*
Concentration: *10,000 U/ml*
Unit Definition: *One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pBR322 DNA to open circular form in 1 hour at 65°C in a total reaction volume of 50 µl.*
Packaging Lot Number: *10189579*
Expiration Date: *05/2025*
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	10189580	Pass
B6003SVIAL	NEBuffer™ r3.1	10182163	Pass

Assay Name/Specification	Lot # 10189579
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.

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YunJie Sun
Production Scientist
04 May 2023


Josh Hersey
Packaging Quality Control Inspector
08 Jun 2023