

New England Biolabs Certificate of Analysis

Product Name: Nb.BsmI
Catalog Number: R0706L
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.
Lot Number: 10021803
Expiration Date: 09/2020
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
R0706LVIAL	Nb.BsmI	10021804	Pass
B7203SVIAL	NEBuffer™ 3.1	10010189	Pass

Assay Name/Specification	Lot # 10021803
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.



Tony Spear-Alfonso
Production Scientist
06 Jun 2018



Michael Tonello
Packaging Quality Control Inspector
13 Sep 2018