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New England Biolabs Certificate of Analysis

Product Name: Nb.BsmI

Catalog #: R0706S/L

Concentration: 10,000 units/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 #:
 0011309

 Assay Date:
 09/2013

 Expiration Date:
 09/2015

 Storage Temp:
 -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
Effective Date: 04 Feb 2014

Assay Name/Specification (minimum release criteria)	Lot #0011309
Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 3.1 containing 1 μ g of a mixture of single and double-stranded [3 H] <i>E. coli</i> 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

^{*} The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Derek Robinson 04 Feb 2014







Inspected by Emma Jean Hess 04 Feb 2014

Emma Jan Kess