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New England Biolabs Certificate of Analysis

Product Name: Nt.BspQI

Catalog #: R0644S/L

Concentration: 10,000 units/ml

Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pUC19 DNA to open circular form in 1

hour at 50°C in a total reaction volume of 50 µl.

 Lot #:
 0021705

 Assay Date:
 05/2017

 Expiration Date:
 5/2019

 Storage Temp:
 -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 µg/ml BSA

Specification Version: PS-R0644S/L v1.0
Effective Date: 18 Aug 2014

Assay Name/Specification (minimum release criteria)	Lot #0021705
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 Nt.BspQI incubated for 4 hours at 50°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 pUC19 DNA and a minimum of 100 Units of Nt.BspQI incubated for 16 hours at 50°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.

M.W. Southworth

Authorized by Maurice Southworth 18 Aug 2014







Inspected by Penghua Zhang 09 May 2017