

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 #: 0021408
Assay Date: 08/2014
Expiration Date: 08/2016
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 #0021408
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] <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

Emma Jean Hess

Authorized by
Maurice Southworth
18 Aug 2014

Inspected by
Emma Jean Hess
20 Aug 2014

