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## New England Biolabs Certificate of Analysis

Product Name:	Nt.BspQL
Catalog #:	R0644S/L
Concentration:	10,000 units/ml
Unit Definition:	One unit is defined as the amount of enzyme required to convert 1 $\mu$ g of supercoiled pUC19 DNA to open circular form in 1 hour at 50°C in a total reaction volume of 50 $\mu$ l.
<i>Lot</i> #:	0021607
Assay Date:	07/2016
Expiration Date:	7/2018
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 #0021607
<b>Exonuclease Activity (Radioactivity Release)</b> - A 50 $\mu$ l reaction in NEBuffer 3.1 containing 1 $\mu$ g of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Non-Specific DNase Activity (16 Hour)</b> - 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



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Inspected by Penghua Zhang 19 Jul 2016