

New England Biolabs Certificate of Analysis

Product Name: Nt.BspQI
Catalog Number: R0644S
Concentration: 10,000 U/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.
Packaging Lot Number: 10173021
Expiration Date: 12/2024
Storage Temperature: -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

Nt.BspQI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0644SVIAL	Nt.BspQI	10173019	Pass
B6003SVIAL	NEBuffer™ r3.1	10168652	Pass

Assay Name/Specification	Lot # 10173021
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
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 Nt.BspQI incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.	Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.


YunJie Sun
Production Scientist
20 Dec 2022



Michael Tonello
Packaging Quality Control Inspector
21 Dec 2022