

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: 10200527
Expiration Date: 07/2025
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	10199070	Pass
B6003SVIAL	NEBuffer™ r3.1	10182162	Pass

Assay Name/Specification	Lot # 10200527
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
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

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
24 Jul 2023


Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
26 Jul 2023