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## New England Biolabs Certificate of Analysis

Product Name: BspQI
Catalog Number: R0712S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 50°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10108647
Expiration Date: 02/2023
Storage Temperature: -20°C

Storage Conditions: 500 mM KCl , 20 mM Tris-HCl (pH 7.0), 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, 0.10 % TritonX-100, 500 µg/ml BSA

Specification Version: PS-R0712S/L v2.0

BspQI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0712SVIAL	BspQl	10100071	Pass	
B6003SVIAL	NEBuffer™ r3.1	10103929	Pass	

Assay Name/Specification	Lot # 10108647
Protein Purity Assay (SDS-PAGE) BspQI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 10 Units of BspQl incubated for 16 hours at 50°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BspQI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BspQI.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass



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

conversion to the nicked form as determined by agarose gel electrophoresis.

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.

Penghua Zhang Production Scientist

21 May 2021

Michael Tonello

Packaging Quality Control Inspector

21 May 2021



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