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New England Biolabs Certificate of Analysis

Product Name: BspQI
Catalog Number: R0712L
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: 1017304: Expiration Date: 10/2024 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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0712LVIAL	BspQl	10167271	Pass	
B6003SVIAL	NEBuffer™ r3.1	10168652	Pass	

Assay Name/Specification	Lot # 10173042
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of supercoiled M13mp18 DNA and a minimum of 10 units of BspQl incubated for 4 hours at 50°C results in <20% conversion to the nicked form 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 [³H] E. coli DNA and a minimum of 50 units of BspQI incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.	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
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:	Pass



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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 Suń Production Scientist

18 Qct 2022

detection.

Michael Tonello

Packaging Quality Control Inspector

28 Nov 2022



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