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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.

Lot Number: 10025864
Expiration Date: 10/2020
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	10025865	Pass	
B7203SVIAL	NEBuffer™ 3.1	10021111	Pass	

Assay Name/Specification	Lot # 10025864
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
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of supercoiled M13mp18 DNA and a	Pass



R0712L / Lot: 10025864

Page 1 of 2

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

Tony Spear-Alfonso Production Scientist

11 Oct 2018

Michael Tonello

Packaging Quality Control Inspector

22 Oct 2018



R0712L / Lot: 10025864

Page 2 of 2