

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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: 10100070
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	
R0712LVIAL	BspQI	10100069	Pass	
B7203SVIAL	NEBuffer™ 3.1	10092686	Pass	

Assay Name/Specification	Lot # 10100070
Protein Purity Assay (SDS-PAGE)	Pass
BspQI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 hour)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 10	
Units of BspQI 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.	
See the product 1 AQ for recommended reaction conditions for this enzyme.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled M13mp18 DNA and a	
minimum of 10 units of BspQI incubated for 4 hours at 50°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	



R0712L / Lot: 10100070

Page 1 of 2

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.

Penghua Zhang Production Scientist 26 Feb 2021

>95% can be recut with BspQI.

Michael Tonello

Packaging Quality Control Inspector

26 Feb 2021

