

Certificate of analysis

Product Name/Description: BspQ I, HQ
Cat. #: 1228A
Lot #: ANXS001
Storage Conditions: -20 degrees C
Expiration Date: Specified on product label or package

Package Size: 20000 U

Package Contents:

Package 1	1. BspQ I, HQ	20 U/μl	20 KU
Package 2	2. 10X BspQ I Buffer, HQ	10X	10 ml

Quality Control Data:

BspQ I, HQ			
Test items	Methods	Specifications	Results
1) Appearance	Visual inspection	Clear, colorless solution	Passed
2) Protein concentration	Bradford assay	Actual value	303 μg/mL
3) Protein purity	SDS-PAGE	≥90%	94%
4) Activity	Fluorometric assay	15 - 30 U/μL	30 U/μL
5) DNase & Exonuclease contamination	Incubation with linear DNA	Not detectable	Passed
6) Endonuclease contamination	Incubation with supercoiled plasmid DNA	<20% conversion to the nicked form	Passed
7) RNase contamination	Incubation with rRNA	Not detectable	Passed
8) Protease contamination	Fluorometric assay	Not detectable	Passed
9) Ligation-Recutting test	Ligation and recutting linear DNA	Ligation: >95%, Recutting: >95%	Passed
10) Endotoxin	Turbidimetric assay	≤5 EU/mL	<1 EU/mL
11) Bioburden	Membrane filtration	<5 CFU/mL	0 CFU/mL
12) Residual host DNA	Fluorometric assay	Not detectable	Passed
13) Residual host RNA	Fluorometric assay	Not detectable	Passed

10X BspQ I Buffer, HQ			
Test items	Methods	Specifications	Results
1) Appearance	Visual inspection	Clear, colorless solution	Passed
2) Functional test	Fluorometric assay	15 - 30 U/μL	Passed
3) Exonuclease contamination	Incubation with Hind III-digested DNA	Not detectable	Passed
4) Endonuclease contamination	Incubation with supercoiled plasmid DNA	Not detectable	Passed
5) DNase contamination	Incubation with linear DNA	Not detectable	Passed
6) RNase contamination	Incubation with rRNA	Not detectable	Passed
7) Endotoxin	Turbidimetric assay	≤5 EU/mL	<1 EU/mL
8) Bioburden	Membrane filtration	<5 CFU/mL	0 CFU/mL

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.

Notice To Purchaser:

Please refer to the website.

Product Documents, Patent Markings, Trademarks, & Safety Information:

Refer to website for availability to download or contact your local office:
www.takara-bio.co.jp (Japanese)
www.takarabio.com (English)

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