

LeadGMP® BspQI

Catalog Number	LDG003R-GMP	informatio
		publicatio
Package	500 U / 2,500 U / 10 KU	our websi

For full product information, images and publications, please visit our website.



Overview

Product Note

- The volume of restriction endonuclease added should not exceed 1/10 of the reaction volume to avoid star activity.
- DNA substrate should not contain phenol, chloroform, ethanol, EDTA, detergents, or high concentrations of salt, as these can affect the activity of BspQI enzyme.

Components

Specification	Item	Amount
500 U	BspQI (10 U/µL)	(1 vial) 50 µL
300 0	10× R Buffer	(1 vial) 500 μL
2500 U	BspQI (10 U/µL)	(1 vial) 250 μL
2300 0	10× R Buffer	(2 vials) 1.25 mL
10 1/11	BspQI (10 U/µL)	(1 vial) 1 mL
10 KU	10× R Buffer	(8 vials) 1.25 mL

Specifications

Expression system	Concentration
Escherichia coli	10 U/µL

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Buffer

20 mM Tris-HCl, 500 mM KCl, 0.1 mM EDTA, 1 mM DTT, 500 $\mu g/ml$ rAlbumin, 50% Glycerol, 0.1% Triton X-100, pH 7

Endotoxin level

<0.1 EU per 1 mL of the enzyme by the LAL method.

Form

Liquid

Activity

One unit of BspQI is defined as the amount of enzyme that cleave 1 μ g λ DNA in a total reaction volume of 50 μ L at 50°C for 1h.

Mycoplasma

Not detected

Background

Background

BspQI is a restriction enzyme derived from bacteria that recognizes and cuts specific DNA sequences. Its recognition sequence is 5'-GCTCTTC-3', with the cleavage site located downstream from the recognition sequence. BspQI is commonly used in molecular biology applications such as genome editing, cloning, and DNA mapping due to its ability to precisely cut DNA at defined sites, facilitating further analysis and manipulation of the DNA molecules.

Instruction

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

 -20°C for long-term storage under sterile conditions.

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Manufacturing specifications

LeadGMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP certified facility. The processes include:

- Animal-free reagent and laboratory
- Manufactured and tested under GMP guideline
- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life

Image

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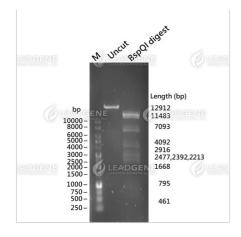
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The enzyme activity of BspQI In a 50 μ L reaction system, 1 μ g of λ DNA was treated with the 1U/ μ L of BspQI. The reaction was incubated at 50 °C for 60 minutes, followed by incubation at 80 °C for 20 minutes to inactivate BspQI. M: DNA marker Uncut: The control group was not treated with BspQI. BspQI disgest: The sample group was treated with BspQI.

Disclaimer : For Research Use or Further Manufacturing Only.

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