BspQI

Catalog Number	LDG0016RG
Package	2,500 U

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
2500 U	BspQI (10 U/μL)	(1 vial) 250 μL
	10× R Buffer	(2 vials) 1.25 mL

Specifications

Expression system

Escherichia coli

Concentration

10 U/μL

Buffer

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

Activity

One unit of BspQI is defined as the amount of enzyme that cleave 1 μg λDNA in a total reaction volume of 50 μL at 50°C for 1h.

Endotoxin level

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

Mycoplasma

Not detected

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Form

Liquid

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.

Image

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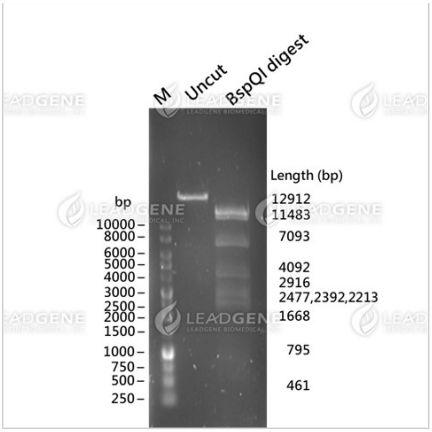

The enzyme activity of BspQI
In a 50 µL reaction system, 1 µg of λDNA was treated with the 1U/µL of BspQI. The reaction was incubated at 50 °C for 60 minutes, followed by incubation at 80 °C for 20 minutes to inactivate BspQI.
M: DNA marker
Uncut: The control group was not treated with BspQI.
BspQI disgest: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

Disclaimer : For Research Use or Further Manufacturing Only.

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