

HB220701

BspQI GMP-grade (10 U/ μ L)

Product Information

Product name	Catalog No.	Size
BspQI GMP-grade (10 U/ μ L)	10664ES76	500 U
	10664ES86	2,500 U
	10664ES92	10 KU
	10664ES98	100 KU

Product Description

This product is a type II restriction endonuclease derived from the recombinant protein encoded by the BspQI gene in *Bacillus sphaericus* expressed by *E.coli*. Its recognition sequence is 5'-GCTCTTCN1/N4-3'. Use to digest plasmids to prepare poly(A/T/G/C)-terminated linearized DNA fragments to obtain specific cohesive ends.

This product is produced in accordance with GMP process requirements and provided in a liquid form.

Product Properties

Source	Recombinant <i>E. coli</i> with BspQI gene
Reaction Temperature	50°C
Storage Conditions	20 mM Tris-HCl, 0.5 M KCl, 0.1 mM EDTA, 1mM DTT, 0.1% Triton X-100, 50% Glycerol
Unit Definition	1 unit: The amount of enzyme required to digest 1 μ g of λ DNA within 1 h at 50°C in a 50 μ L system

Contents

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		10664ES76 (500 U)	10664ES86 (2,500 U)	10664ES92 (10 KU)	10664ES98 (100KU)
10664	BspQI GMP-grade (10 U/ μ L)	50 μ L	250 μ L	1 mL	10 mL

Shipping and Storage

The product is shipped with dry ice and can be stored at -15°C ~ -25°C for one year.

Applications

1. Digest the plasmid to prepare a linearized DNA fragment at the end of Poly (A/T/C/G);
2. Digestion of DNA to obtain specific sticky ends.

Experimental methods

50 μ L reaction system

This step is suitable for linearization of 1 μ g DNA (\geq 100 nt) and can be scaled up according to experimental needs.

1. Add the following components in sequence:

Components	Volume
Plasmid DNA	1-2 μg
10 \times Digestion Buffer 3	5.0 μL
BspQI (10 U/ μL)	1.0 μL
RNase-free ddH ₂ O	Up to 50 μL

【Note】 10 \times Digestion Buffer 3(Cat#10667): 500mM Tris-HCl, 1M NaCl,100mM MgCl₂, 1mg/mL OsrHSA, pH7.9@25°C

2. Incubate at 50°C 1 h;
3. DNA linearization is complete, and subsequent experiments can be performed.

Notes:

1. The volume of restriction endonuclease added should not exceed 1/10 of the reaction volume;
2. For your safety and health, please wear personal protective equipment (PPE), such as laboratory coats and disposable gloves, when operating with this product.