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BspQI, 200U/μL

Product Number: M062011

Shipping and Storage

Ice pack transportation, stored at -20°C, with a shelf life of 1 year.

Component

Component	5KU	250 KU	1 MU
BspQI (200 U/μL)	25μL	1.25mL	5mL

Description

This product is a restriction endonuclease type II, derived from a recombinant protein encoded by the BspQI gene in *Bacillus sphaericus* expressed in *E. coli*. Its recognition sequence is 5'-GCCTTCN1/N4-3', mainly used for enzyme digestion of plasmids to prepare poly (A/T/G/C) terminated linearized DNA fragments and obtain specific sticky ends.

Specification

Source	E. coli
Reaction Temperature	50°C
Storage Conditions	20mM Tris-HCl, 0.5 M KCl, 0.1mM EDTA, 1mM DTT, 0.1% Triton X-100, 50% Glycerol
Unit Definition	One unit of activity is defined as the amount of enzyme required to digest 1μg of λ DNA within 1 hour at 50°C in a 50μL system

Note: For specific product quality inspection data and more indicators, please refer to the batch quality inspection report.

Unit definition

1 unit: The amount of enzyme required to digest 1μg of λDNA within 1h at 50°C in a 50μL system.

Protocol

1. 50μL reaction system.

This step is applicable for linearization of 1μg DNA (≥ 100 nt) and can be scaled up according to experimental needs.

1.1. Add the following components in sequence:

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

1.2. Incubate at 50°C for 1 hour;

1.3. DNA linearization is completed and subsequent experiments can be conducted.

Note:

- The volume of restriction endonuclease added should not exceed 1/10 of the reaction volume;
- For your safety and health, please wear lab clothes and disposable gloves when operating.