

BspQI (10 U/μl)

DD4302PCEN

Version 22.1



Product Description

The product BspQI is a recombinant protein encoded by the *BspQI* gene of *Bacillus sphaericus* expressed in *E. coli*. It is an IIS-type restriction endonuclease, and its recognition sequence and cleavage sites are shown below:

5'.....GCTCTTC(N).....3'
3'.....CGAGAAG(NNNN).....5'

Components

Component	DD4302PCEN-01 (500 U)	DD4302PCEN-02 (10 KU)	DD4302PCEN-03 (50 KU)	DD4302PCEN-04 (200 KU)
BspQI (10 U/μl)	50 μl	1 ml	5 ml	20 ml

Storage

Store at -30 ~ -15°C and transport at ≤ 0°C.

Product Information

Product Name	BspQI (10 U/μl)
Source	Recombinant <i>E. coli</i>
Activity	10 U/μl
Unit Definition	One unit is defined as the amount of enzyme required to completely cleave 1 μg of λDNA within 1 hour at 50°C.
Digestion Buffer I (1×)	50 mM Tris-HCl (25°C, pH 7.9), 100 mM NaCl, 10 mM MgCl ₂ , 100 μg/ml OsrHSA
Storage Buffer	20 mM Tris-HCl (25°C, pH 7.0), 500 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.01% Triton X-100, 500 μg/ml OsrHSA, 50% glycerol
Storage Conditions	-30 ~ -15°C

Application

1. Enzyme-digest plasmids to prepare linearized DNA fragments with poly(A/T/C/G) ends.
2. Enzyme-digest DNA to obtain specific sticky ends.

Recommended Reaction System

Component	Volume	Final Concentration
10× Digestion Buffer I	2 μl	1×
BspQI (10 U/μl)	1 μl	0.5 U/μl
Plasmid DNA	1 - 2 μg	50 - 100 ng/μl
RNase-free ddH ₂ O	Up to 20 μl	-

Reaction conditions: reaction at 37°C for 1 h

Notes

1. For research use only. Not for use in diagnostic procedures.
2. The addition volume of the restriction endonuclease should not exceed 1/10 of the reaction volume.
3. Star activity may occur at glycerol concentrations > 5%.

