

# BspQ I (10 U/ $\mu$ L)

## 产品基本信息 (Basic Product Information)

产品名称 Product Name	BspQ I
来源 Source	重组E.coli Recombinant E.coli
酶活 Activity	10 U/ $\mu$ L
活性定义 Unit Definition	在50 °C反应条件下, 1 h内消化1 $\mu$ g $\lambda$ DNA所需要的酶量定义为1个活性单位(U) One unit (U) is defined as the amount of enzyme required to digest 1 $\mu$ g $\lambda$ DNA in 1 hour at 50 °C.
存储缓冲液 Optimal Temperature	20 mM Tris-HCl(25 °C, pH 7.0), 500 mM KCl, 0.1 mM EDTA, 1 mM DTT, 500 $\mu$ g/mL OsrHSA, 50% Glycerol
Reaction buffer (10 $\times$ )	50 mM Tris-HCl(25 °C, pH 7.9), 100 mM NaCl, 10 mM MgCl <sub>2</sub> , 100 $\mu$ g/mL OsrHSA

## 产品描述 (Product Description)

本产品为大肠杆菌表达的球形芽孢杆菌内BspQ I基因编码的重组蛋白, 是一种IIS类限制性内切酶, 主要用于酶切质粒以制备poly(A/T/G/C)结尾的线性化DNA片段, 及酶切DNA获得特定的粘性末端, 其识别序列和切割位点为:

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

This product is a recombinant protein expressed in E. coli, encoded by BspQ I gene in Bacillus sphaericus. It is an IIS type restriction endonuclease, mainly used for enzyme digestion of plasmids to prepare linear DNA fragments with poly (A/T/G/C) ends, and for enzyme digestion of DNA to obtain specific sticky ends. Its recognition sequence and cleavage site are as follows:

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

## 产品组成 (Product Components)

产品名称 (Product Name)	货号 (Cat.No.)	规格 (Volume)
BspQ I	EM4006	50 KU
		250 KU
		1 mL

## 推荐反应体系 (Recommended Reaction System)

组分(Components)	用量 (Volume)
10 $\times$ Buffer	2 $\mu$ L
BspQ I	1 $\mu$ L
Plasmid DNA	1~2 $\mu$ g
RNase-free ddH <sub>2</sub> O	Up to 20 $\mu$ L

注:

50 °C反应1 h。

Note:

Reaction at 50 °C for 1 h.

## 运输与保存 (Transport and Storage)

-20 °C保存, 干冰运输。

Store at -20 °C and transport on dry ice.

## 注意事项 (Note)

1. 限制性内切酶添加体积不超过反应体积的1/10;
2. 当反应体系中的甘油浓度高于5%时, 可能会出现星号活性。
1. The addition volume of restriction endonuclease should not exceed 1/10 of the reaction volume;
2. Asterisk activity may occur when the glycerol concentration in the reaction system is higher than 5%.