

Restriction Enzyme BstY I



Cat.# FG-BstYI Size 2,000 units Conc. 10 units/µl

Store at -20℃

Supplied with: 10X FastGene® Buffer II (FG-REB2)

10X FastGene® FastCut Buffer (FG-REBHF)

6X DNA Loading Buffer

Sterile water

Recognition site



For Research Use Only. Not for use in diagnostic procedures.

ISO9001

Dilution buffer: FastGene® Diluent A

Heat Inactivation

No heat inactivation.

Methylation sensitivity

dam methylation: Not sensitive dcm methylation: Not sensitive CpG methylation: Not sensitive

Prolonged incubation

A minimum amount of enzyme required to digest 1 μ g substrate DNA for 16 hr; 0.13 U.

Relative activity in FastGene® Buffers

 FastGene® Buffer I:
 50%

 FastGene® Buffer II:
 100%

 FastGene® Buffer III:
 75%

 FastGene® Buffer IV:
 100%

 FastGene® FastCut Buffer:
 100%

Note

It is an isoschizomer of Xho II. It is not affected by *dam, dcm,* or mammalian CpG methylation.

Source: Bacillus stearothermophilus Y406

Reaction conditions

1X FastGene® Buffer II 60℃ 1X FastGene® FastCut Buffer, 60℃

FastGene® FastCut Buffer

FastGene® restriction enzyme can cut substrate DNA in 5-15 with FastGene® FastCut Buffer.

1X FastGene® Buffer II

10 mM Tris-HCl (pH 7.9 at 25°C) 50 mM NaCl 10 mM MgCl $_2$ 100 μ g/ml BSA

Unit definition

One unit is defined as the amount of enzyme required for complete digestion of 1 μ g bacteriophage λ at 60°C for 1 hr in 50 μ l reaction mixtures.

Quality control

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Extreme pure assay

Standard reaction condition

- Normal protocol

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Component	Final Conc.	Volume
Substrate DNA	1 µg	Xμl
10X FastGene® Buffer II	1 X	5 µl
BstY I	10 unit	1 μΙ
Sterile water		up to 50 μl

→ Incubate at 60°C for 1 hr

- Fast protocol

- Tast protocor		
Component	Final Conc.	Volume
Substrate DNA	1 μg	Χ μΙ
10X FastGene® FastCut Buffer	1 X	5 μΙ
BstY I	10 unit	1 μΙ
Sterile water		up to 50 μl
→ Incubate at 60°C for 15 mir	1	