

Restriction Enzyme CviA I



Cat.# FG-CviAI

Size 200 units 5 units/µl

Expire date:

Store at -20℃

Supplied with: 10X FastGene® Buffer IV (FG-REB4) 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

65°C for 20 min.

Methylation sensitivity

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

Relative activity in FastGene® Buffers

FastGene®	Buffer I:	10%
FastGene®	Buffer II:	50%
FastGene®	Buffer III:	10%
FastGene®	Buffer IV:	100%
FastGene®	FastCut Buffer:	100%

Note

- It is an isoschizomer of Mbo I.
- DNA cleavage is blocked by dam methylation.

Source

CviAl gene from Chlorella virus PBCV-1

Reaction conditions

- 1X FastGene® Buffer IV, 37°C
- 1X FastGene® FastCut Buffer, 37°C

FastGene® FastCut Buffer

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

1X FastGene® Buffer IV

20 mM Tris-acetate (pH 7.9 at 25°C) 50 mM potassium acetate 10 mM magnesium acetate 100 µg/ml BSA

Unit definition

One unit is defined as the amount of enzyme required to digest 1 μg of Lambda DNA(dam-) in 1 hour at 37°C in a total reaction volume of 50 µl.

Quality control

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

Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	Xμl
10X FastGene® Buffer IV	1 X	5 μΙ
CviA I	5 unit	1 µl
Sterile water		up to 50 μl
→ Incubate at 37°C for 1 hr		

- Fast protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	Xμl
10X FastGene® FastCut Buffer	1 X	5 μΙ
CviA I	5 unit	1 μΙ
Sterile water		up to 50 μl
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→ Incubate at 37°C for 15 min

Ж We recommend 5-10 units of enzyme per μg DNA and 10-20 units for genomic DNA in a 1 h digest.