

FastGene® Restriction Enzyme Acc III

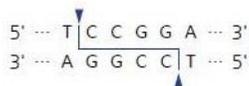


Cat.#	Size	Conc.
FG-AccIII	1,000 units	10 units/μl

Store at -20°C

Supplied with: 10X FastGene® Buffer Acc III (FG-REBAccIII)
6X DNA Loading Buffer
Sterile water

Recognition site



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

ISO9001

Source: *Acinetobacter calcoaceticus*

Reaction conditions

1X FastGene® Buffer Acc III 65°C

1X FastGene® Buffer Acc III

10 mM Tris-HCl (pH 8.5 at 25°C)
100 mM NaCl
10 mM MgCl₂
100 μg/ml BSA

Unit definition

One unit is defined as the amount of enzyme required for complete digestion of 1 μg bacteriophage λ at 65°C for 1 hr in 50 μl reaction mixtures.

Quality control

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

Dilution buffer:

FastGene® Diluent B

Heat Inactivation

No.

Methylation sensitivity

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

Relative activity in FastGene® Buffers

FastGene® Buffer I: 0%
FastGene® Buffer II: 25%
FastGene® Buffer III: 100%
FastGene® Buffer IV: 0%
FastGene® FastCut Buffer: Not recommended

Note

Acc III cleavage is blocked by *dam* methylation partially overlapping its recognition site.

Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	X μl
10X FastGene® Buffer Acc III	1 X	5 μl
Acc III	10 unit	1 μl
Sterile water		up to 50 μl

→ Incubate at 65°C for 1 hr

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

FastGene® Restriction Enzyme Acc III

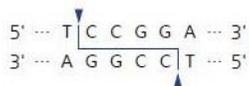


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100 μg/ml BSA

Unit definition

One unit is defined as the amount of enzyme required for complete digestion of 1 μg bacteriophage λ at 65°C for 1 hr in 50 μl reaction mixtures.

Storage

10 mM Tris-HCl (pH 7.3 at 25°C), 300 mM NaCl, 0.1 mM EDTA, 1 mM dithiothreitol, 500 μg/ml BSA, 50% glycerol.

Quality control

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

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