



Restriction Enzyme

Acc III

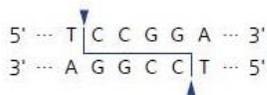


| Cat.# | Size | Conc. |
|-----------|-------------|-------------|
| FG-AccIII | 1,000 units | 10 units/μl |

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.



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.

Source: *Acinetobacter calcoaceticus*

Reaction conditions

1X FastGene® Buffer Acc III 65°C

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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

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.