



Restriction Enzyme Sse9 I



Cat.# FG-Sse9I	Size 500 units	Conc. 5 units/μl
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Store at -20°C

Supplied with: 10X FastGene® Buffer I (FG-REB1)
10X FastGene® FastCut Buffer (FG-REBHF)
6X DNA Loading Buffer
Sterile water

Recognition site



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



Source: *Sporosarcina species*

Reaction conditions

1X FastGene® Buffer I 55°C
1X FastGene® FastCut Buffer, 55°C

FastGene® FastCut Buffer

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

1X FastGene® Buffer I

10 mM Bis Tris propane-HCl (pH 7.0 at 25°C)
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 pBR322 at 55°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 I	1 X	5 μl
Sse9 I	5 unit	1 μl
Sterile water		up to 50 μl

→ Incubate at 55°C for 1 hr

- Fast protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	X μl
10X FastGene® FastCut Buffer	1 X	5 μl
Sse9 I	5 unit	1 μl
Sterile water		up to 50 μl

→ Incubate at 55°C for 15 min

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

Dilution buffer:

FastGene® Diluent A

Heat Inactivation

Sse9 I can be inactivated at 65°C for 20 min.

Methylation sensitivity

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

Relative activity in FastGene® Buffers

FastGene® Buffer I:	100%
FastGene® Buffer II:	50%
FastGene® Buffer III:	50%
FastGene® Buffer IV:	75%
FastGene® FastCut Buffer:	100%