



For research use only

ISO9001

Sma I

Product	Quantity	Cat. No.	Remarks
Sma I	2,500 unit	EBR-1127	10 unit/μl

Recognition site

5'... C C C | G G G...3'
3'... G G G | C C C...5'

Source

Serratia marcescens.

Reaction Conditions

Buffer 4. 20 mM Tris-acetate (pH 7.9), 50 mM potassium acetate, 10 mM magnesium acetate, 1 mM DTT. Incubate at 25°C.

Concentration & Storage Condition

Store at -20°C. 10 unit/μl in 10 mM Tris-HCl (pH 7.4), 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 200 μg/ml BSA, 50% (v/v) glycerol.

Heat Inactivation Condition

65°C for 20min.

Enzyme dilution

Dilute with Storage Buffer.

QC Tests

Activity, ligation and recutting, exo and endonuclease activity test, SDS-PAGE purity, performance tests.

Methylase Sensitivity

Blocked by CpG methylation (Cleavage of mammalian genomic DNA is blocked).

Note

Incubation at 37°C results in 50% activity, because half-life of Sma I is 15 min at 37°C.

Buf4	25°C	65°C	CpG	BW
BUFFER	REACTION	INACTIVATION	METHYL BLOCK	BLUE/WHITE

Buffer	1	2	3	4
Activity	0	0	0	100



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