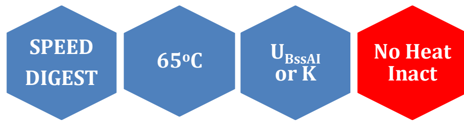
BssAI (Cfr10 I isoschizomer)



5’ ···R▼CCGGY···3’
3’ ···YGGCC▲R···5’

BssAI is a restriction enzyme purified from *Bacillus species.*

Catalogue No	*112-1, 400 U* *112-2, 3x400 U*
Concentration	*10-12u/μl and 40-60u/μl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x U_{BssAI} and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM KCl, 20 mM Tris-HCl (pH 8.5 @ 25°C), 3 mM $MgCl_2$, 0.04% Triton X-100, 100 μg/ml bovine serum albumin and DNA. Incubate at 65°C.

Absence of contaminants: 50 units of *BssA* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA at 65°C. After 30-fold overdigestion with *BssA* I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 μg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: No.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Reference: Rina, M., Stratidakis, I. and Bouriotis, V. (1990). Nucleic Acids Res. 18, 6161.

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	**K**
10	25	75	50	25	**100**

General reaction mixture:

10U BssAI	1μl
10x U_{BssAI} or K buffer *	2μl
DNA substrate	<1μg
Sterile ultrapure water	Up to 20 μl
Incubate for 15 min at 65°C	

**In the case of U_{BssAI} buffer we recommend the addition of BSA to a final concentration of 100 μg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
61	40	0	1	1	7

Lambda DNA 1 % agarose

minotech BIOTECHNOLOGY