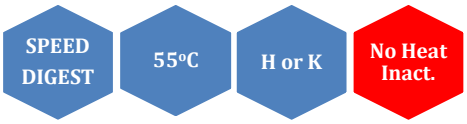
BseC I (Cla I isoschizomer)



5' ···AT▼CGAT···3'
3' ···TAGC▲TA···5'

BseCI is a restriction enzyme purified from *Bacillus stearothermophilus*.

Catalogue No	*109-1, 2000 U* *109-2, 3x2000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x H and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 55°C.

Absence of contaminants: 150 units of *Bse*CI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA at 55°C. After 100-fold overdigestion with *Bse*CI greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 100 mM KCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton X-100, 200 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: No.

Methylation Sensitivity:
dam methylation: Blocked by overlapping
dcm methylation: Not sensitive
CpG methylation: Blocked

Reference: Rina, M., Dialektakis, D., Clark, D., Pagomenou, M. and Bouriotis, V. (1992). Nucleic Acids Res. 20

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

10U BseCI	1µl
10x H or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 55°C

**In the case of H 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
15	2	0	0	2	1

Lambda DNA 0.7 % agarose

MINOTECH BIOTECHNOLOGY