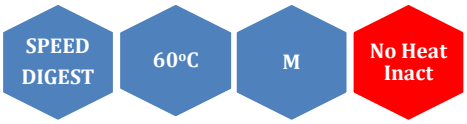
BseB I (BstN I isoschizomer)



5' ···CC▼(A/T)GG···3'
3' ···GG(T/A)▲CC···5'

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

Catalogue No	*108-1, 2000 U* *108-2, 3x2000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x M buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH @ 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 60°C.

Absence of contaminants: 500 units of *Bse*BI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA at 60°C. After ten-fold overdigestion with *Bse*BI, less than 50% of the DNA fragments can be ligated.

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

Heat inactivation: No.

Note: *Bse*BI-cut DNA is difficult to ligate with T4 DNA Ligase. Ligation is enhanced in the presence of 15% PEG4000.

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	K
10-25	**100**	50	25-50	<10	50

General reaction mixture:

10U BseB I	1µl
10x M buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 60°C	

**We recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
70	136	2	5	7	6

Lambda DNA 1.4 % agarose

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