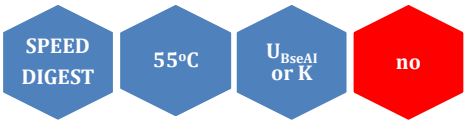
BseA I (BspM II isoschizomer)



5' ···T▼CCGGA···3'
3' ···AGGCC▲T···5'

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

Catalogue No	*107-1, 100 U* *107-2, 3x100 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

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

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 10 mM Tris-HCl (pH 8.0 @ 25°C), 5 mM $MgCl_2$, 1 mM dithiothreitol, 0.02% Triton X-100, 100 µg/ml BSA**.** Incubate at 55°C.

Absence of contaminants: 400 units of *Bse*AI 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*AI, greater than 98% 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, 500 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: No.

Reference: Thanos, D., Scarpelis, G., Papamatheakis, J. and Bouriotis, V. (1989). Nucleic Acids Res. 17, 8881.

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

10U BseAI	1µl
10x U_{BseAI} 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 U_{BseAI} 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
24	8	0	0	0	1

Lambda DNA 0.7 % agarose

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