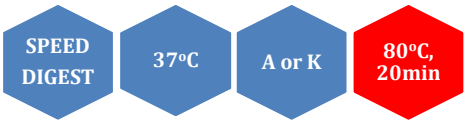
BshF I (Hae III isoschizomer)



5' ···GG▼CC···3'
3' ···CC▲GG···5'

BshFI is a restriction enzyme purified from *Bacillus sphaericus*.

Catalogue No — *110-1, 2000 U*
110-2, 3x2000 U

Concentration — *10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x A and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 50 mM potassium acetate, 20 mM Tris-acetate (pH 7.9 @ 25°C), 10 mM magnesium acetate, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 200 units of *Bsh*F I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 50-fold overdigestion with *Bsh*F 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: 80°C for 20 minutes.

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

Reference: Vlatakis, G., Clark, D. and Bouriotis, V. (1989). Nucleic Acis Res. 17, 8882

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

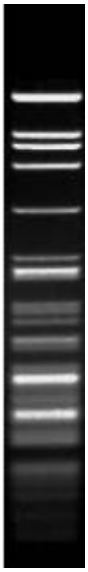
10U BshFI	1µl
10x A or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of A 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
149	216	11	11	15	22



Lambda DNA 1.4 % agarose

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