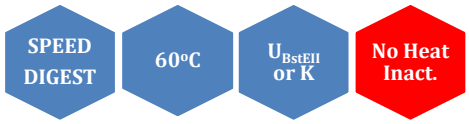
BstE II



5' ···G▼GTNACC···3'
3' ···CCANTG▲G···5'

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

Catalogue No	*144-1, 2000 U* *144-2, 3x2000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x U_{BstEII} and 10x K buffer.

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM KCl, 10 mM Tris-HCl (pH 7.4 @ 25°C), 5 mM $MgCl_2$, 1 mM dithiothreitol, 0.1% Triton X-100, 100 µg/ml BSA. Incubate at 60°C.

Absence of contaminants: 150 units of *Bst*EII do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA at 60°C. After 100-fold overdigestion with *Bst*EII, 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 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: No.

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

Note: *Bst*E II exhibits 10-15% activity at 37°C.

Percent Activity in MINOTECH Buffers

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

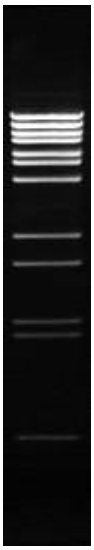
General reaction mixture:

10U BstEII	1µl
10x U_{BstEII} or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 60°C	

**In the case of U_{BstEII} 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
13	10	0	0	0	0



Lambda DNA 0.7 % agarose

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