



Data Sheet (18.06.2010)

BstE II 5' ...GGTNACC...3'
 3' ...CCANTGG...5'

Source: *Bacillus stearothermophilus*

Cat.-No.	Size	Conc.
mi-E0144S	1,750 units	10 u/μl
mi-E0144L	8,750 units	10 u/μl

Buffer supplied: 10x BstE II (incl. BSA)

BSA is now already included into the buffer without any loss of performance!

Substrate for unit definition: λ DNA (13 sites)

Reaction conditions:

100 mM KCl, 10 mM Tris-HCl (pH 7.4), 5 mM MgCl₂, 1 mM dithiothreitol, 0.1 % Triton X-100, 100 μg/ml BSA.
Incubate at **60 °C**.

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.

Ligation and recutting:

After 40-fold overdigestion with BstE II, > 95 % of the DNA fragments can be ligated and recut with this enzyme.

Note:

BstE II exhibits 10-15 % activity at 37 °C.

Heat inactivation: No