

5'...G[▼]GTNACC...3'
 3'...CCANTG[▲]G...5'

Content:	Ref No.	250144S	color
BstEII 10 U/μL		1750 units	blue
10x buffer U _{BstEII} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA BstEII digest, 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).
 BstEII exhibits 10-15% activity at 37°C.

Storage: -20 °C

Concentration: 10 U/μL

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

Enzyme Properties:

1x buffer U_{BstEII} composition: 10 mM Tris-HCl (pH 7.4 at 25 °C), 100 mM KCl, 5 mM MgCl₂, 1 mM Dithiothreitol, 0.1 % Triton X-100.

General reaction mixture:

10 U BstEII	1 μL
10x buffer M* or K	2 μL
DNA substrate	<1 μg
Sterile ultrapure water	Up to 20 μL

Incubate for 15 min at 60 °C

Heat inactivation: No.

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

Storage buffer: 10 mM Tris-HCl (pH 7.4), 100 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 200 μg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 150 units of BstEII do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA at 60 °C. After 100-fold overdigestion with BstEII, greater than 95 % of the DNA fragments can be ligated and recut with this enzyme.

Unit definition: One unit is defined as the amount of enzyme required to produce a complete digest of 1 μg Lambda DNA (dam⁻) in 60 minutes in a total reaction volume of 0.05 mL under assay conditions.

Frequency of Cutting:	λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
	13	10	0	0	0	0
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	50	50-75	75-100	50	75	100

*we recommend the addition of BSA to a final concentration of 100 μg/mL.

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