



Content:	Ref No.	250103S	color
BamHI 10 U/μL		7500 units	blue
10x buffer U _{BamHI} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA BamHI digest, 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).

Storage: -20 °C

Concentration: 10 U/μL

Source: BamHI is a restriction enzyme purified from *Bacillus amyloliquefaciens* H.

Enzyme Properties:

1x buffer U_{BamHI} composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 100 mM NaCl, 5 mM MgCl₂, 1 mM Dithiothreitol

General reaction mixture:

10 U BamHI	1 μL
10x buffer U _{BamHI} * or K	2 μL
DNA substrate	<1 μg
Sterile ultrapure water	Up to 20 μL

Incubate for 15 min at 37 °C

Heat inactivation: 80 °C for 20 minutes.

Methylation Sensitivity:

- dam* methylation: Not sensitive
- dcm* methylation: Not sensitive
- CpG methylation: Not sensitive

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

Absence of contaminants: 100 units of BamHI incubated for 16 hours at 37 °C with 1 μg of λ-DNA resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. After 50-fold overdigestion with BamHI, 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
	5	3	0	1	1	1

Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	75	75-100	100	50-75	75	100

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

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