BclI

5'…T▼GATCA…3'
3'…ACTAG▲T…5'

Content:	Ref No.	250104S	color
	BclI 10 U/µL	2500 units	blue
	10x buffer M*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		

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

Lambda DNA BclI digest, 0.7 % agarose

Storage: -20 °C

Concentration: 10 U/µL

Source: BclI is a restriction enzyme purified from *Bacillus caldolyticus*.

Enzyme Properties:

1x buffer M composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM $MgCl_2$, 1 mM Dithiothreitol.

General reaction mixture:

10 U BclI	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 50 °C

Heat inactivation: No.

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

Storage buffer: 10 mM Tris-HCl (pH 7.4 at 25 °C), 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 BclI do no produce any unspecific clevage products after 16 hrs incubation with 1 µg of Lambda DNA (dam^-) at 50 °C. After 50-fold overdigestion with BclI, 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
8	5	0	0	0	0

Percent Activity in BIORON Buffers:

L*	M*	H*	SH*	A*	K
10-25	**100**	75	50-75	10-25	**100**

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

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