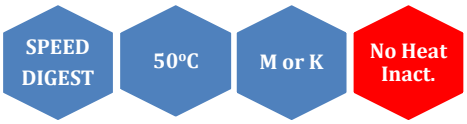
Bcl I



5’ ···T▼GATCA···3’
3’ ···ACTAG▲T···5’

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

Catalogue No — *104-1, 3000 U*
104-2, 3x3000 U

Concentration — *10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x M and 10x K buffer

Unit substrate: Lambda DNA (dam$^-$).

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 50°C.

Absence of contaminants: 100 units of *Bcl*I do no produce any unspecific clevage products after 16 hrs incubation with 1 µg of λ DNA (dam$^-$) at 50°C. After 50-fold overdigestion with *Bcl*I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 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: Blocked
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

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

Incubate for 15 min at 50°C

**In the case of M 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
8	5	0	0	0	0

Lambda DNA (dam$^-$) 0.7 % agarose

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