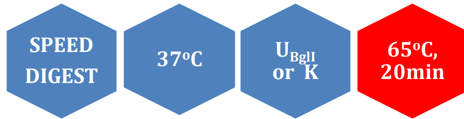
Bgl I...



5' ···GCCNNNN▼NGGC···3'
3' ···CGGN▲NNNNCCG···5'

BglI is a restriction enzyme purified from *Bacillus globigii* lacking *Bgl*II.

Catalogue No	*105-1, 2000 U* *105-2, 3x2000 U*
Concentration	*10-12u/μl and 40-60u/μl**

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

Reagents supplied: 10x U_{BglI} and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM KCl, 20 mM Tris-HCl (pH 8.5 @ 25°C), 10 mM $MgCl_2$, 0.04% Triton X-100, 100 μg/ml BSA. Incubate at 37°C.

Absence of contaminants: 100 units of *Bgl*I do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of λ DNA at 37°C. After 50-fold overdigestion with *Bgl*I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 300 mM NaCl, 20 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM dithiothreitol, 500 μg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Blocked by some combinations of overlapping

Percent Activity in MINOTECH Buffers

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

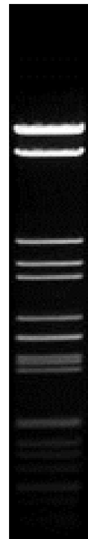
General reaction mixture:

10U BglI	1μl
10x U_{BglI} or K buffer *	2μl
DNA substrate	<1μg
Sterile ultrapure water	Up to 20 μl
Incubate for 15 min at 37°C	

**In the case of U_{BglI} 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
29	20	0	2	1	3



Lambda DNA 0.7 % agarose

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