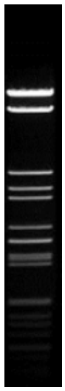
BglI

5'…GCCNNNN▼NGGC…3'
3'…CGGN▲NNNNCCG…5'

Content:	Ref No.	250105S	color
	BglI 10 U/µL	2000 units	blue
	10x buffer U_{BglI}*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		



Lambda DNA BglI digest, 0.7 % agarose

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

Storage: -20 °C

Concentration: 10 U/µL

Source: BglI is a restriction enzyme purified from *Bacillus globigii* lacking BglII.

Enzyme Properties:

1x buffer U_{BglI} composition: 20 mM Tris-HCl (pH 8.5 at 25 °C), 100 mM KCl, 10 mM $MgCl_2$, 0.04 % Triton X-100.

General reaction mixture:

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

Incubate for 15 min at 37 °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

Storage buffer: 20 mM Tris-HCl (pH 7.5 at 25 °C), 300 mM NaCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 500 µg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 100 units of BglI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37 °C. After 50-fold overdigestion with BglI, 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
29	20	0	2	1	3

Percent Activity in BIORON Buffers:

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

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

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