Bgl II

SPEED DIGEST
37°C
H or K
No

5’ ...A▼GATCT...3’
3’ ...TCTAG▲A...5’

BglII is a restriction enzyme purified from Bacillus globigii lacking Bgl.

Catalogue No
106-1, 2000 U
106-2, 3x2000 U

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

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

Reagents supplied: 10x H and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM MgCl₂, 1 mM dithiothreitol, 100 μg/ml BSA. Incubate at 37°C.

Absence of contaminants: 150 units of BglII 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 BglII, 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: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Percent Activity in MINOTECH Buffers

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>M</th>
<th>H</th>
<th>SH</th>
<th>A</th>
<th>K</th>
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<tr>
<td></td>
<td>10</td>
<td>75</td>
<td>100</td>
<td>75-100</td>
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General reaction mixture:

- 10U BglII
- 10x H or K buffer *
- DNA substrate ~1μg
- Sterile ultrapure water Up to 20 μl

*In the case of H buffer we recommend the addition of BSA to a final concentration of 100 μg/ml.

Incubate for 15 min at 37°C

Frequency of Cutting

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<tr>
<th>λ</th>
<th>Ad-2</th>
<th>Φx174</th>
<th>pUC18</th>
<th>M13mp18</th>
<th>pBR322</th>
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<td>11</td>
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<td>0</td>
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Lambda DNA 0.7 % agarose