Restriction Endonuclease

SibEnzyme®

Bgl II

Recognition Sequence:

A↓GATCT
TCTAG↑A

S

E027
1,000 units
10,000 u/ml

Lot:
Exp:
Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	0-10	10-25	100	25-50	10-25	100

37°C | No | O | λ | RR

For more details scen the code

Ph/F+7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Source: An *E.coli* strain that carries the cloned Bgl II gene from *Bacillus globigii.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1x SE-Buffer O. Incubate at 37° C.

1X SE-Buffer O (pH 7.6 @ 25° C):
50 mM Tris-HCl 100 mM NaCl
10 mM $MgCl_2$ 1 mM DTT

Heat Inactivation:
Enzyme is not inactivated by incubation at 65° C for 20 minutes.

Unit Definition: One unit of the enzyme is the amount required to hydrolyze 1 µg of Lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 20-fold overdigestion with Bgl II, approximately 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 10 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 10 units of restriction endonuclease for 3 hours.

Enzyme Properties:
When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Note: Not blocked by overlapping dam-methylation ($G^{m}ATC$): AGATCT

Reagents Supplied with Enzyme:
10X SE-Buffer O.