Restriction Endonuclease

SibEnzyme®

Bmu I

Recognition Sequence:

ACTGGG(N)$_5$↓
TGACCC(N)$_4$↑

S

E487
50 units
500 u/ml

Lot:
Exp:
Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	75-100	75-100	25-50	10-25	100	25

37°C | 65°C | Y | λ/HindIII

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Bacillus megaterium S87.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:
1X SE-Buffer Y. Incubate at 55° C.

1X SE-Buffer Y (pH 8.5 @ 25° C):
33 mM Tris-HCl 66 mM KAc
10 mM MgAc 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 65°C for 20 minutes.

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

Quality Control Assays
Ligation: After 2-fold overdigestion with Bmu I, ~70% of the DNA fragments can be ligated with T4 DNA Ligase and 95% of these can be recut.
Overnight digest with Bmu I is not recommended. A 50 µl reaction containing 1 µg of Lambda DNA and 0.5 units of enzyme incubated for 4 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 0.5 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.

Reagents Supplied with Enzyme:
10X SE Buffer Y.

Note: Enzyme is active in presence of EDTA.