Restriction Endonuclease

SibEnzyme®

Bse21 I (Bsu36I Eco81I)

Recognition Sequence:

CC↓TNAGG
GGANT↑CC

L

E038
2 500 units
20,000 u/ml

Lot: see label
Exp: see label
Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	50-75	50-75	10-25	25-50	100	40

37°C 80°C Y λ/HindIII

For more details scan the code

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CERTIFICATE OF ANALYSIS

Source: Bacillus species 21.

Supplied in:
10 mM KH_2PO_4 (pH 7.4), 50 mM KCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1xSE-Buffer Y. Incubate at 37 °C.

1X SE-Buffer Y (pH 7.9 @ 25 °C)
33 mM Tris-Ac 66 mM KAc
10 mM $Mg(Ac)_2$ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 80 °C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of λ 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 enzyme about 50% of DNA fragments can be ligated by using of high concentration T4 DNA ligase with presence of 10% PEG. Of these more than 90% can be recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 40 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 single-stranded and double-stranded oligonucleotide was observed after incubation with 20 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.