Restriction Endonuclease

SibEnzyme®

EcoICR I

Recognition Sequence: GAG↓CTC / CTC↑GAG

S

E469

200 units

5,000 u/ml

Lot: 16

Exp: 10/20

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	75-100	100	0-10	0-10	75-100	5

37°C | 65°C | G | λ/HindIII | BSA

For more details scan the code

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CERTIFICATE OF ANALYSIS

Source: Escherichia coli ICR

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

Reaction Conditions:
1 x SE-Buffer G, BSA (100 µg/ml). Incubate at 37°C.

1 x SE-Buffer G (pH 7.6@ 25°C):
10 mM Tris-HCl 50 mM NaCl
10 mM $MgCl_2$ 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 λ DNA/HindIII in 1 hour at 37°C in a total reaction volume of 50 µl. To obtain 100% activity, BSA should be added to the 1 x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays
Ligation: After 5-fold overdigestion with EcoICR I, >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.
No using BSA for long incubation.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 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 enzyme to achieve complete digestion.

Reagents Supplied with Enzyme:
10 x SE-Buffer G, BSA (10 mg/ml).