Restriction Endonuclease

SibEnzyme®

Kzo9 I

Recognition Sequence:

↓GATC
CTAG↑

S

E187

200 units

3,000 u/ml

Lot:

Exp:

Store at -20°C

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

37°C 65°C G λ

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Kurthia zopfii 9.*

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

Reaction Conditions:
1X SE-Buffer G. Incubate at 37° C.

1X 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 Lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 3-fold overdigestion with Kzo9 I, > 95% 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 6 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 3 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 G.

Not blocked by overlapping Dam methylation (G^{m}ATC):
GATC.

Blocked by overlapping CG methylation:
CGAT^{m}CG.

Cleaved of DNA is impaired by overlapping CG methylation: GAT^{m}CG.