



Bar I

Recognition \downarrow (N), GAAGNNNNNNTAC(N) 12 \downarrow Sequence: \uparrow (N), CTTCNNNNNNATG(N), \uparrow

S E547
100 units
1.000 u/ml

Lot: Exp:

Store at -20C

 SE-Buffers
 B
 G
 O
 W
 Y
 ROSE

 %Activity
 0-10
 0-10
 25-50
 50-75
 10-25
 40

37°C 65°C 2K T7

For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Bacillus sphaericus.

Supplied in:

 $20~\text{mM}~\text{KH}_2\text{PO}_4\text{(pH }7.4\text{), }100~\text{mM }\text{KCl, }0.1~\text{mM }\text{EDTA, }7~\text{mM }2\text{-mercaptoethanol, }200~\mu\text{g/ml }\text{BSA, }50\%~\text{glycerol.}$

Reaction Conditions:

1X SE-Buffer 2K. Incubate at 37° C.

1X SE-Buffer 2K (pH 7.6 @ 25° C): 10 mM Tris-HCl 200 mM KCl 10 mM MqCl₂ 1 mM DTT

Heat Inactivation:

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

Quality Control Assays

<u>Ligation</u>:After 2-fold overdigestion with Bar I, 90% of the DNA fragments can be ligated, Of these 95% can be recut.

<u>16-Hour Incubation:</u> A 50 μ l reaction containing 1 μ g of DNA and 2 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 1 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 SF Buffer 2K.

Blocked by overlapping Dam methylation($G^{m}ATC$): TCCGGATC and GATCCGGA.