



Erh I

Recognition Sequence:

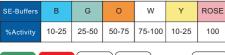
S

E0611,000 units
20,000 u/ml

GGWMCt C

Lot: Exp:

Store at -20°C



37°C







For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Erwinia rhapontici.

Supplied in:

 $\overline{10}$ mM Tris-HCl (pH 7.5), 50 mM KCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:

1X SE-Buffer 2W, BSA (100 $\mu g/ml$). Incubate at 37° C.

1X SE-Buffer 2W(pH 8.5 @ 25° C): 20 mM Tris-HCl 200 mM NaCl

10 mm MgCl₂ 1 mm DTT

Heat Inactivation:

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

<u>Unit Definition</u>:One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l. To obtain 100% activity, BSA should be added to the 1x reaction mix to a final concentration of 100 μ g/ml.

Quality Control Assays

<u>Ligation</u>:After 20-fold overdigestion with Erh I, 95% of the DNA fragments can be ligated and 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.

No using BSA for long incubation.

High enzyme concentration may result in star activity.

Oligonucleotide Assay:No detectable degradation of a 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 2W, BSA (10 mg/ml).