Restriction Endonuclease

Pst I

Recognition Sequence:	
L	E110 20,000 unit

G†ACGTC) Lot: units Exp:

SibEnzyme®

CTGCALG

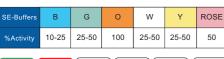
Store at -20C

Ph/F+7(383)333-6853

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20,000 u/ml



37°C 80°C Ο λ R BSA

For more details scen the code

CERTIFICATE OF ANALYSIS

<u>Source</u>: An E.coli strain that carries the cloned Pst I gene from Providencia stuartii.

Supplied in:

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

Reaction Conditions:

1X SE-Buffer O, BSA (100 µg/ml). Incubate at 37° C.

<u>1X SE-Buffer 0 (pH 7.6 @ 25° C):</u> 50 mM Tris-HCL 100 mM NaCl 10 mM MgCl, 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°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

 $\underline{Ligation}$:After 20-fold overdigestion with Pst I, ~90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

<u>16-Hour Incubation</u>: 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. Do not use BSA for long incubation.

<u>Oligonucleotide Assay</u>: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.

<u>Reagents Supplied with Enzyme:</u> 10X SE Buffer O, BSA (10 mg/ml).