



PspC I

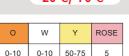
Recognition Sequence:

E475 2,000 units 20.000 u/ml

100

CACLGTG GTG†CAC

Lot: Exp: Store at -20°C/-70°C





SE-Buffers

%Activity



50-75



For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Pseudomonas species C.

Supplied in:

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 B, BSA (100 µg/ml). Incubate at 37° C.

1X SE-Buffer B (pH 7.6 @ 25° C):

10 mM Tris-HCl 1 mM DTT 10 mM MgCl₂

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. 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 20-fold overdigestion with PspC I, >90% of the DNA fragments can be ligated with T4 DNA Ligase and recut. Ligation is better in presence of 10% PEG.

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. Do not use BSA for long incubation.

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 B, BSA (10 mg/ml).

Storage at -70°C is recommended for periods longer than 30 days.