

Restriction
Endonuclease



Pst I

Recognition
Sequence:

CTGCA↓A
G↑ACGTC

XS

E109m
500 units
20,000 u/ml

Lot:
Exp:
Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	100	25-50	25-50	50

37°C **80°C** **O** **λ** **RR** **BSA**

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: 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.

1X SE-Buffer O (pH 7.6 @ 25° C):
50 mM Tris-HCl 100 mM NaCl
10 mM MgCl₂ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 80° 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
1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 20-fold overdigestion with Pst I, ~90%
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 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 O, BSA (10 mg/ml).