Restriction Endonuclease

SibEnzyme®

Pac I

Recognition Sequence:

TTAAT↓TAA
AAT↑TAATT

S

E909

200 units

10,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	0-10	0-10	0-10	0-10	50-75	25-50

37°C 65°C FC pUC101

For more details scen the code

Ph/F+7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Source: *Pseudomonas alcaligenes.*

Supplied in:
10 mM Tris-HCl (pH 7.4), 200 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 100 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1X FastCut Buffer. Incubate at 37 °C.

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 pUC101 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation:After 10-fold overdigestion with Pac 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 20 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 10 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 FastCut Buffer.