Restriction Endonuclease

Pvu II

For more details

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xs	E929m 800 units 20,000 u/ml	

CAG↓CTG GTC↑GAC N Lot: Exp:

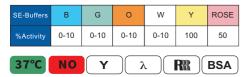
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CERTIFICATE OF ANALYSIS

<u>Source</u>: An E.coli strain that carries the cloned Pvu II gene from Proteus vulgaris.

Supplied in:

10 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200 μg/ml BSA, 50% glycerol.

Reaction Conditions:

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

 1X SE-Buffer Y (pH 7.9 @ 25° C):

 33 mM Tris-Ac
 66 mM KAc

 10 mM MgAc
 1 mM DTT

<u>Heat Inactivation</u>: NO (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

<u>Ligation</u>:After 20-fold overdigestion with Pvu II, more than 90% of the DNA fragments can be ligated and recut.

<u>16-Hour Incubation</u>: 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. 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.

Reagents Supplied with Enzyme: 10X SE Buffer Y, BSA (10mg/ml).