



AsuHP I

Recognition Sequence:

S E231

200 units 5.000 u/ml

GGTGA(A)₈↓ CCACT(N)₇↑

> Lot: Exp:

Store at -20°C

Dam

 SE-Buffers
 B
 G
 O
 W
 Y
 ROSE

 %Activity
 10-25
 50-75
 100
 75-100
 25-50
 100

37°C 65°C Ο λ

For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Actinobacillus suis HP.

Supplied in:

 $\overline{10~\text{mM}}$ Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:

1x SE-Buffer O. Incubate at 37° C.

1X SE-Buffer 0 (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 65°C for 20 minutes.

<u>Unit Definition</u>:One unit is defined as the amount of enzyme required to digest 1 μg of lambda DNA (dam-) in 1 hour at 37° C in a total reaction volume of 50 μl .

Quality Control Assays

<u>Ligation</u>:After 2-fold overdigestion with AsuHP I, \sim 30% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

<u>16-Hour Incubation</u>: A 50 μ l reaction containing 1 μ g of DNA and 10 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 5 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.

Blocked by overlapping dam-methylation (G"ATC): ${\tt GGT} \underline{{\tt GATC}}$

AsuHP I may cleave $N_{\rm r}/N_{\rm r}$ depending on the sequence between the recognition and cleave sites.

Reagents Supplied with Enzyme: 10X SF Buffer 0.