Product Datasheet

*Asu*HP I (Hph I)

5'...**GGTGA(N)**₈...3' 3'...**CCACT(N)**_{7,}...5'

Product No: RE1134 Quantity :100u



Lot **Expiry Date**

Concentration $5u/\mu l$

Supplied with 1ml of 10X Buffer V3 1ml of 10X Buffer UB

> 0.5ml Diluent Viva Buffer A (BSA included in all Reaction Buffer)

Store at -20°C



info@vivantechnologies.com

λDNA (dam & dcm) 1.2% Agarose

Reaction Conditions:

Buffer V3,

50mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂, 100mM NaCl, and 100µg/ml BSA.

Incubate at 37°C.

Dilution: Viva Buffer A

10mM Tris-HCI (pH 7.4 at 25°C), 50mM KCI, 0.1mM EDTA,

1mM DTT, 200µg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCI (pH 7.5), 250mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol 200µg/ml BSA and 50% glycerol.

Unit Definition:

1u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 37° C in 50μ l of assay buffer.

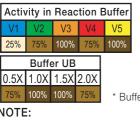
Quality Control Assays:

Ligation/ Recutting Assay:

After 5-fold overdigestion with AsuHP I, 50% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after 1μg of DNA was digested with 10u of AsuHP I for 16 hours at 37°C.



* Buffer UB is provided for double digestion purpose.

- * Blocked by overlapping dam-methylation (G^mATC): **GGTGATC** * May cleave at N9/N8 depending on the sequence between the recognition and cleave sites.
- Total reaction volume dependent on experiment.
- The amount of enzyme to be used is very much dependent on the DNA template.
- * For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion Reaction

Enzyme 1 unit

Lambda (dam- & dcm-) 0.3µg/µl : 3.33µl (1µg DNA)

10X Reaction Buffer 5ul

Sterile Distilled Water : Up to 50μl

> Product Use Limitation This product is for research purposes and in vitro use only.

V i V a n t i S | www.vivantechnologies.com