

## Reaction Conditions:

Buffer V2, 10mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl<sub>2</sub>, 50mM 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, 100µg/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 50µl of assay buffer.

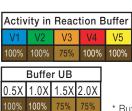
## **Quality Control Assays:**

#### Ligation/ Recutting Assay:

After 20-fold overdigestion with Psp124B I, more than 95% of the DNA fragments can be ligated and recut.

#### Overdigestion assay:

An unaltered banding pattern was observed after 1µg of DNA was digested with 40u of Psp124B I for 16 hours at 37°C.



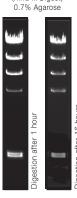
\* Buffer UB is provided for double digestion purpose.

## NOTE:

- 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.

: 1 unit : 3.33µl (1µg DNA) 5μl : Up to 50µl

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



λDNA (Hind III Digest)