

Reaction Conditions:

Buffer V3, 50mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl₂, 100mM NaCI, and 100µg/ml BSA. Incubate at 37°C.

Dilution: Viva Buffer A

10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200 μ g/ml BSA and 50% glycerol.

Thermal Inactivation: 80°C for 20 minutes

Storage Buffer:

10mM Tris-HCI (pH 7.5), 100mM 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 $1\mu g$ of DNA in 1 hour at $37^{\circ}C$ in $50\mu l$ of assay buffer.

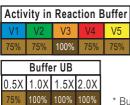
Quality Control Assays:

Ligation/ Recutting Assay:

After 20-fold overdigestion with **BstAU I**, 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 40u of **BstAU 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.

Example of Digestion Reaction		
Enzyme	:	1 unit
Lambda 0.3µg/µl 10X Reaction Buffer	:	3.33µl (1µg DNA)
10X Reaction Buffer	:	5µl
Sterile Distilled Water	:	Up to 50µl

Product Use Limitation

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

λ DNA 0.7% Agarose

