

**Fbl I**  
(Acc I)



Product No : RE1268  
Quantity : 150u



Lot :  
Expiry Date :  
Concentration : 2u/μl  
Supplied with : 1ml of 10X Buffer V5  
1ml of 10X Buffer UB  
0.5ml Diluent Viva Buffer A  
(BSA included in all Reaction Buffer)

Store at -20°C



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**Reaction Conditions:**

**Buffer V5** ,  
30mM Tris-acetate (pH 7.9 at 30°C), 10mM Mg-acetate,  
60mM K-acetate, and 100μg/ml BSA.

**Incubate at 55°C.**

**Dilution:** Viva Buffer A

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

**Thermal Inactivation:** None

**Storage Buffer:**

10mM Tris-HCl (pH 7.5), 200mM 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 55°C in 50μl of assay buffer.

**Quality Control Assays:**

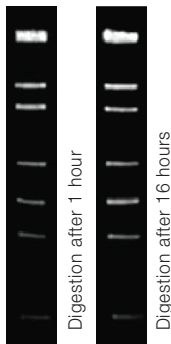
**Ligation/ Recutting Assay:**

After 2-fold overdigestion with **Fbl I**, 90% of the DNA fragments can be ligated and recut.

**Overdigestion assay:**

An unaltered banding pattern was observed after 1μg of DNA was digested with 4u of **Fbl I** for 16 hours at 55°C.

λ DNA  
0.7% Agarose



Activity in Reaction Buffer				
V1	V2	V3	V4	V5
100%	100%	50%	75%	100%

Buffer UB			
0.5X	1.0X	1.5X	2.0X
100%	75%	75%	75%

\* 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 : 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.