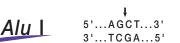
v i v a n t i s

FAST DIGEST RESTRICTION ENDONUCLEASE



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Product No: FDRE1120 Quantity : 25 preps

Lot **Expiry Date** Concentration

: 3u/µl

Supplied with : 1ml of 10X Buffer FD







Product Datasheet

info@vivantechnologies.com

Storage Buffer:

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

3u (1µI) is defined as the amount of enzyme that is required to digest 1µg of DNA within 15 minutes at 37°C in 20µl or 50µl of assay buffer.

Thermal inactivation:

65°C for 20 minutes.

Quality Control Assays:

Ligation/ Recutting Assay:

After 3-fold overdigestion with Alu I, 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

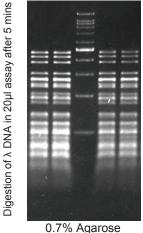
An unaltered banding pattern was observed after 1µg of DNA was digested with 6u of Alu I for 16 hours at 37°C.

Example of Digestion Reaction:

Reagents	20µl Assay Buffer	50µl Assay Buffer
Enzyme	1µl	2µl
Lambda DNA 0.5µg/µl	2µІ	2μΙ
10X Buffer FD	2µl	5µl
Sterile Distilled Water	Up to 20µl (high yield)	Up to 50µl (low yield)

Assay	Incubation Time (mins)		
Volume	5	10	15
20µl	٧	V	٧
50µl	V	V	V

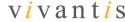
Figure: 1µg DNA fragments were completely digested within 15 mins of incubation time at 37°C using 1µl & 2µl of Alu I in 20µl & 50µl assay buffer respectively.



- *High enzyme concentration may result in Star Activity.
- *Total reaction volume dependent on experiment.
- *For plasmid DNA, 2-3X more enzymes are required.
- *Concentration of enzyme may be different according to different batch.

Product Use Limitation

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



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Digestion of λ DNA in 50μl assay after 5 mins