vivantis

FAST DIGEST RESTRICTION ENDONUCLEASE

Product Datasheet

Bgl II

5'...AGATCT...3'
3'...TCTAGA...5'

Product No : FDRV1144
Quantity : 50 preps

Lot :
Expiry Date :
Concentration : 10u/µl
Supplied with : 1ml of 10X Buffer FD

DIGESTION WITHIN 15 MINUTES

Store at -20°C

info@vivantechnologies.com

Storage Buffer:
10mM Tris-HCl (pH 7.5), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200µg/ml BSA and 50% glycerol.

Unit Definition:
10u (1µl) 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:
None.

Quality Control Assays:
Ligation/ Recutting Assay:
After 10-fold overdigestion with ***Bgl* II**, 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 20u of ***Bgl* II** 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	2µl	2µl
10X Buffer FD	2µl	5µl
Sterile Distilled Water	Up to 20µl (high yield)	Up to 50µl (low yield)

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

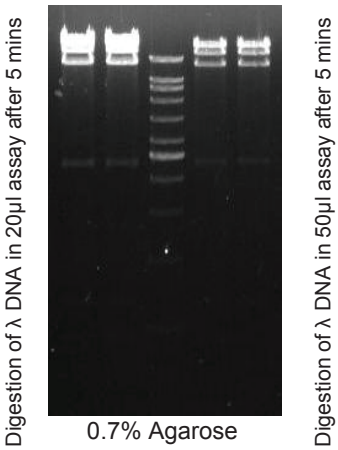

Figure: 1µg DNA fragments were completely digested within 15 mins of incubation time at 37˚C using 1µl & 2µl of ***Bgl* II** in 20µl & 50µl assay buffer respectively.

Note:
*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.

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URL: www.vivantechnologies.com
General enquiry: info@vivantechnologies.com
Technical support: vivalab@vivantechnologies.com