vivantis

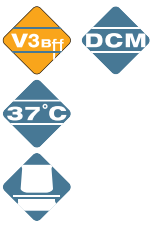
RESTRICTION ENDONUCLEASE

Product Datasheet

BmrF I (Scr FI)

5'...CCNGG...3'
3'...GGNCC...5'

Product No :RV1154
Quantity :400u



Lot :
Expiry Date :
Concentration : 30u/µl
Supplied with : 1ml of 10X Buffer V3
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A
(BSA included in all Reaction Buffer)
Store at -20°C

info@vivantechnologies.com

Reaction Conditions:
Buffer V3 ,
50mM Tris-HCl (pH 7.5 at 30°C), 10mM $MgCl_2$,
100mM NaCl, 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, 200µg/ml BSA and 50% glycerol.

Thermal Inactivation: None

Storage Buffer:
10mM Tris-HCl (pH 7.5), 100mM NaCl, 0.1mM EDTA,
7mM 2-mercaptoethanol, 100µg/ml BSA and 50% glycerol.

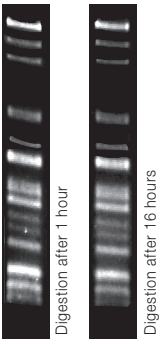
Unit Definition:
1u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 37°C in 50µl of assay buffer.

Quality Control Assays:

Ligation/ Recutting Assay:
After 30-fold overdigestion with ***BmrF I***, more than 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 60u of ***BmrF I*** for 16 hours at 37°C.

λ DNA
(dam⁻ & dcm⁻)
0.7% Agarose



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

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

* Buffer UB is provided for double digestion purpose.

NOTE:
* Blocked by overlapping dcm-melthylation
* 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 (dam⁻ & dcm⁻) 0.3µg/µl	:	3.33µl (1µgDNA)
10X Reaction Buffer	:	5µl
Sterile Distilled Wate	:	Up to 50µl