V i V a n t i S restriction endonuclease		Product Datasheet
Mhll (Sdu I)	5'GDGCHC3' 3'CHCGDG5'	Product No : RE1292 Quantity : 200u
	0.5ml	10X Buffer UB of Diluent Viva Buffer A I in all Reaction Buffer)
		nfo@vivantechnologies.com
Reaction Conditions: Buffer 1.5X UB, 37.5mM Tris-acetate (pH 7.6 at 30°C), 15mM Mg-acetate, 150mM K-acetate, 10.5mM 2-mercaptoethanol and 75µg/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: 80°C for 20 minutes

Storage Buffer:

10mM Tris-HCI (pH 7.5), 100mM 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 37° C in 50µl of assay buffer.

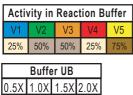
Quality Control Assays:

Ligation/ Recutting Assay:

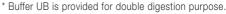
After 5-fold overdigestion with *MhI* I, more than 95% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 10u of *MhI* I for 16 hours at 37°C.



75%



NOTE:

50% 50%

- * High enzyme concentration may result in Star Activity.
- * 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	: 7.5µl		
Sterile Distilled Water	: Up to 50μl		

Product Use Limitation

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



λ DNA 1.0% Agarose

