Restriction Endonuclease	(A)°	Supplied in: 10 mM Tris-HCI (pH 7.5);	Quality Control Assays	Enzyme Properties
Bmu I E487	SibEnzyme Ltd., Russia Ph: +7 383 333 4991 Fax :+7 383 333 6853 info@sibenzyme.com www.sibenzyme.com	250 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 50% glycerol. Reaction Conditions: 1×SEBuffer Y Incubate at 37°C.	Ligation: After 2-fold overdigestion with Bmu I ~75% of the λ DNA fragments can be ligated and 95% of these can be recut. Overnight digest with Bmul is not recommended.	Activity in SEBuffers: SEBuffer B 75-100% SEBuffer G 75100% SEBuffer O 25-50% SEBuffer W 10-25% SEBuffer Y 100% SEBuffer ROSE 25%
SE 37° A VES		1×SEBuffer Y (pH 7.9 @ 25°C) 33 mM Tris-Ac 66 mM KAc 10 mM MgAc 1 mM DTT	A 50 μ l reaction containing 1 μ g of λ DNA and 0.5 units of enzyme incubated for 4 hours resulted in the same pattern of DNA bands	When using a buffer other than the optimal (suppied) SEBuffer, it may be necessary to add more enzyme to achieve
100 u	Lot: 3		as a reaction incubated for 1 hour.	complete digestion.
500 u/ml	Store at -20°C	Unit Definition: One unit is defined as the amount		
Recognition Sequence: 5' ACTGG0 3' TGACC0	G(N)₅↓…3'	of enzyme required to digest 1 μg of λ DNA /Hind III in 1 hour at 37°C in a total reaction volume of 50 μl. Note: Enzyme is active in presence of EDTA.	Oligonucleotide Assay: No detectable degradation of a single- and double-stranded oligonucleotide was observed after incubation with 0.5 units of enzyme for 3 hours.	Heat Inactivation: Yes (65°C for 20 minutes) Reagents Supplied with Enzyme: 10×SEBuffer Y
Sourse: Bacillus megaterium S2				CERTIFICATE OF ANALYSIS