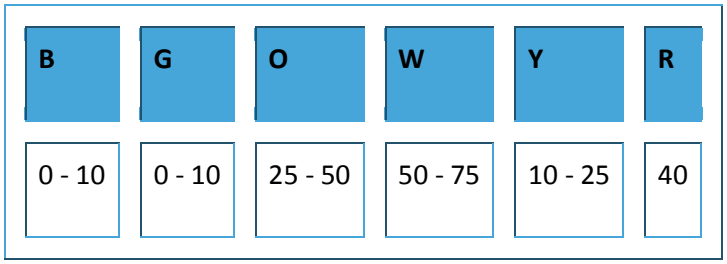
Product info: Bar I

Name	Bar I	
Cat. #	E547	E548
Package, u.a.	2 x 100	2 x 500
Concentration, u.a./ml	500-2000	500-2000

Recognition site	↑$(N)_7$GAAGNNNNNNTAC$(N)_{12}$↑ ↓$(N)_{12}$CTTCNNNNNNATG$(N)_7$↓
Source	Bacillus sphaericus
Assayed on	T7 DNA
Unit definition	One unit of the enzyme is the amount required to hydrolyze 1 µg of T7 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Optimal SE-buffer	**SE-buffer 2K** (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM $MgCl_2$; 200 mM KCl; 1 mM DTT.)

Enzyme activity (%)	
Optimal temperature	37°C
Storage conditions	20 mM KH_2PO_4(pH 7.4); 100 mM KCl; 0,1 mM EDTA; 7 mM 2-mercaptoethanol; 200 µg/ml BSA, 50% glycerol. Store at -20°C.
Ligations	After 2-fold overdigestion with enzyme 90% of DNA fragments can be ligated. Of these 95% can be recut.
Non-specific hydrolisis	No nonspecific activity was detected after incubation of 1 µg of T7 DNA with 2 u.a. of enzyme for 16 hours at 37°C.
Reagents Supplied with Enzyme	10 X SE-buffer 2K
Methylation sensitivity	not tested
Inactivation 20 minutes under	65°C