Restriction Endonuclease

SibEnzyme®

Bme18 I (AvaII Eco47I)

Recognition Sequence: G↓GWCC / CCWG↑G

S

E029

1 000 units

10,000 u/ml

Lot: see label

Exp: see label

Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	100	75-100	10-25	80

37°C 65°C O λ

For more details scan the code

Ph/F+7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Source: *Bacillus megaterium 18.*

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

Reaction Conditions:
1X SE-Buffer O. Incubate at 37 °C.

1X SE-Buffer O (pH 7.6 @ 25 °C)
50 mM Tris HCl 100 mM NaCl
10 mM $MgCl_2$ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 65 °C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37 °C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 10-fold overdigestion with Bme18 I, more than 90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of single-stranded and double-stranded oligonucleotide was observed after incubation with 10 units of restriction endonuclease for 3 hours.

Enzyme Properties:
When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme:
10X SE Buffer O.

Cleaved of DNA is impaired by overlapping dcm-methylation (C^{m}CWGG): GGWCCWGG.