

Restriction
Endonuclease



BstMC I

Recognition
Sequence:

CGRY↓CG
GCT↑RGC

S

E071

500 units
5,000 u/ml

Lot:

Exp:

Store at -20°C

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

50°C

80°C

B

λ

BSA

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus MC*.

Supplied in:

10 mM Tris-HCl (pH 7.5), 200 mM KCl, 0.1 mM EDTA,
7 mM 2-mercaptoethanol, 200 µg/ml BSA; 50%
glycerol.

Reaction Conditions:

1X SE-Buffer B, BSA (100 µg/ml). Incubate at 50° C.

1X SE-Buffer B (pH 7.6 @ 25° C):

10 mM Tris-HCl
10 mM MgCl₂ 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°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 50° C in a total reaction volume of 50 µl.
To obtain 100% activity, BSA should be added to the
1 x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 5-fold overdigestion with BstMC I, >
90% of the DNA fragments can be ligated with T4 DNA
Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing in 1 µg
of DNA and 10 Units of enzyme incubated for 16 hours
resulted in the same pattern of DNA bands as a reaction
incubated for 1 hour.

Do not use BSA for long incubation.

Oligonucleotide Assay: No detectable degradation of a
single-stranded and double-stranded oligonucleotide
was observed after incubation with 5 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 B, BSA (10 mg/ml).