

Restriction
Endonuclease



MspA1 I

Recognition
Sequence:

CMG↓CKG
GKCTGMC

S

E191
500 units
5,000 u/ml

Lot:
Exp:
Store at -20°C

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

37°C

65°C

Y

λ

BSA

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Moraxella species A1.*

Supplied in:
20 mM Tris-HCl (pH 7.6), 300 mM NaCl, 0,1 mM EDTA,
7 mM 2-mercaptoethanol, 10 mM MgCl₂, 200 µg/ml
BSA, 50% glycerol.

Reaction Conditions:
1X SE-Buffer Y, BSA (100 µg/ml). Incubate at 37° C.

1X SE-Buffer Y (pH 7.9 @ 25° C):
33 mM Tris-Ac 66 mM KAc
10 mM MgAc 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 MspA1 I,
90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 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.

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 Y, BSA (10mg/ml).

Storage at -70° C is recommended for periods longer
than 30 days.