

Restriction  
Endonuclease



# Msp I

Recognition  
Sequence:

C↓CGG  
GGC↑C

S

**E091**

1,000 units  
20,000 u/ml

Lot:

Exp:

Store at -20°C

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

37°C

65°C

B

λ

BSA

For more details  
scan the code



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## CERTIFICATE OF ANALYSIS

Source: *Moraxella species*.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0,1 mM EDTA,  
1 mM DTT, 200 µg/ml BSA, and 50% glycerol.

Reaction Conditions:

1X SE-Buffer B. Incubate at 37° C.

1X SE-Buffer B (pH 7.6 @ 25° C):

10 mM Tris-HCl  
10 mM MgCl<sub>2</sub>      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/HindIII  
in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 20-fold overdigestion with Msp I, > 95%  
of the DNA fragments can be ligated with T4 DNA Ligase  
and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of  
DNA and 40 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 20 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.