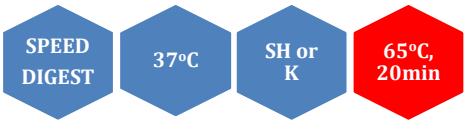
MspC I (AfI II isoschizomer)



5' ···C▼TTAAG···3'
3' ···GAATT▲C···5'

MspCI is a restriction enzyme purified from *Micrococcus* species.

Catalogue No — *121-1, 1500 U*
121-2, 3x1500 U

Concentration — *10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x SH and 10x K buffer

Unit substrate: Lambda DNA (*Hind* III digest).

Unit calculation assay conditions: 150 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 37°C.

Absence of contaminants: 80 units of *Msp*CI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA/*Hind* III digest at 37°C. After 10-fold overdigestion with *Msp*CI, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Reference: Rina, M., Tzanodaskalaki, M., Karagouni, A., Pagomenou, M. and Bouriotis, V. (1992). Nucleic Acids Res., 20, 1806.

Percent Activity in MINOTECH Buffers

L	M	H	**SH**	A	**K**
<10	25-50	75-100	**100**	50	**100**

General reaction mixture:

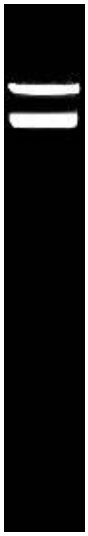
10U MspCI	1µl
10x SH or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of SH buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
3	4	2	0	0	0



Lambda DNA 0.7 % agarose

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