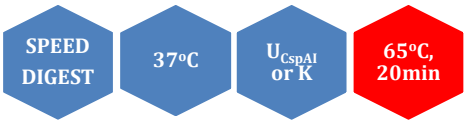
CspA I (Age I isoschizomer)



5’ ···A▼CCGGT···3’
3’ ···TGGCC▲A···5’

CspAI is a restriction enzyme purified from *Corynebacterium species*.

Catalogue No — *113-1, 200 U*
113-2, 3x200 U

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

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

Reagents supplied: 10x U_{CspAI} and 10x K buffer.

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 10 mM Bis Tris Propane-HCl (pH 7.0 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 50 units of *Csp*A I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 10-fold overdigestion with *Csp*A I, greater than 90% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 100 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml bovine serum albumin 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

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	K
50	<10	<10	<10	<10	**100**

General reaction mixture:

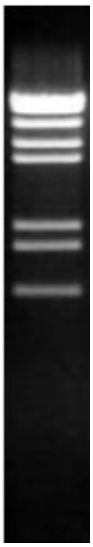
10U CspAI	1µl
10x U_{CspAI} or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of U_{CspAI} 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
13	5	0	0	0	0



Lambda DNA 1.0 % agarose

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