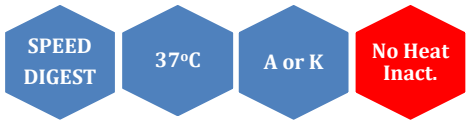
HpaI



5’ ···GTT▼AAC···3’
3’ ···CAA▲TTG···5’

HpaI is a restriction enzyme purified from a recombinant *E.coli* strain.

Catalogue No	*118-1, 800 U* *118-2, 3x800 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x A and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 50 mM potassium acetate, 20 mM Tris-acetate (pH 7.9 @ 25°C), 10 mM magnesium acetate, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 50 units of *Hpa* 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 *Hpa* I, 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 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 500 µg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: No.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Blocked by some combinations of overlapping

Star activity: Conditions of high enzyme concentration or glycerol concentration >5%, may result in star activity.

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

10U HpaI	1µl
10x A 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 A 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
14	6	3	0	0	0

Lambda DNA 0.7 % agarose

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