HpaI

5'…GTT▼AAC…3'
3'…CAA▲TTG…5'

Content:	Ref No.	250118S	color
	HpaI 10 U/µL	750 units	blue
	10x buffer A*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		

Lambda DNA HpaI digest, 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).

Storage: -20 °C

Concentration: 10 U/µL

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

Enzyme Properties:

1x buffer A composition: 20 mM Tris-acetate (pH 7.9 at 25 °C), 50 mM potassium acetate, 10 mM magnesium acetate, 1 mM Dithiothreitol.

General reaction mixture:

10 U HpaI	1 µL
10x buffer A* or K	2 µL
DNA substrate	<1 µg
Sterile ultrapure water	Up to 20 µL

Incubate for 15 min at 37 °C

Heat inactivation: No.

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

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM Dithiothreitol, 500 µg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 50 units of HpaI 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 HpaI, greater than 95 % of the DNA fragments can be ligated and recut with this enzyme.

Unit definition: One unit is defined as the amount of enzyme required to produce a complete digest of 1 µg Lambda DNA in 60 minutes in a total reaction volume of 0.05 mL under assay conditions.

Frequency of Cutting:

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
14	6	3	0	0	0

Percent Activity in BIORON Buffers:

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

*we recommend the addition of BSA to a final concentration of 100 µg/mL.

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