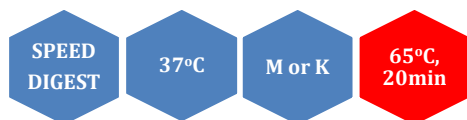


Hind III



5' ...A▼AGCTT...3'
3' ...TTCGA▲A...5'

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

Catalogue No 116-1, 10000 U
 116-2, 3x10000 U

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

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

Reagents supplied: 10x M and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM MgCl₂, 1 mM dithiothreitol, 100 μg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 700 units of *Hind* III do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA at 37°C. After 100-fold overdigestion with *Hind* III, greater than 98% 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: 65°C for 20 minutes.

Methylation Sensitivity:

dam methylation: Not sensitive

dcm methylation: Not sensitive

CpG methylation: Not sensitive

Star activity: Star activity may be observed in the presence of Mn²⁺.

Percent Activity in MINOTECH Buffers

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

General reaction mixture:

10U HindIII 1μl
10x M 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 M 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
7	12	0	1	1	1



Lambda DNA 0.7 % agarose