



Content:	Ref No.	250117S	color
Hinfl 10 U/μL		2500 units	blue
10x buffer R3		1x 1 mL	red
10x buffer EQ		1x 1 mL	yellow
Datasheet			



Lambda DNA HindIII digest, 1.4 % agarose

We recommend the use of buffer EQ as universal buffer.

Storage: -20 °C

Concentration: 10 U/μL

Source: An *E. coli* strain that carries the cloned *hinfl* gene from *Haemophilus influenzae* Rf.

Enzyme Properties:

1x buffer H composition: 50 mM Tris-HCl (pH 7.9 at 25 °C), 100 mM NaCl, 10 mM MgCl₂, 100 μg/ml BSA

General reaction mixture:

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

Incubate for 15 min at 37 °C

Heat inactivation: 80 °C for 20 minutes.

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

Storage buffer: 10 mM Tris-HCl (pH 7.4 at 25 °C), 50 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 200 μg/mL BSA and 50 % glycerol. Store at -20 °C

Absence of contaminants: 200 units of Hinfl do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of λ-DNA at 37 °C. After 100-fold overdigestion with Hinfl, greater than 90 % 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 (*dam*⁻) 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
	148	72	21	6	27	10

Percent Activity in BIORON Buffers:	R1	R2	R3	R4	EQ
	10	50	100	75-100	100