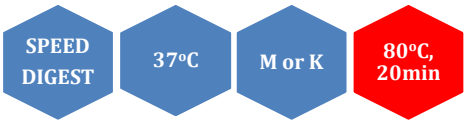
EcoR V



5’ ···GAT▼ATC···3’
3’ ···CTA▲TAG···5’

EcoRV is a restriction enzyme purified from *E. coli* J62plg 74.

Catalogue No	*115-1, 4000 U* *115-2, 3x4000 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 $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 100 units of *Eco*R V do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 20-fold overdigestion with *Eco*R V, 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, 200 µg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: 80°C for 20 minutes..

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

Star activity: Conditions of low ionic strength, high enzyme concentration, glycerol concentration>5%, or pH>8.0 may result in star activity.

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	**K**
10-25	**100**	50	<10	75	**100**

General reaction mixture:

10U EcoRV	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
21	9	0	0	0	1

Lambda DNA 1.0 % agarose

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