

5'...GAT<sup>▼</sup>ATC...3'  
 3'...CTA<sup>▲</sup>TAG...5'

Content:	Ref No.	250115S	color
EcoRV 10 U/μL		3000 units	blue
10x buffer M*		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA EcoRV digest, 1 % agarose

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

**Storage:** -20 °C

**Concentration:** 10 U/μL

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

#### Enzyme Properties:

**1x buffer M composition:** 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM MgCl<sub>2</sub>, 1 mM Dithiothreitol

**General reaction mixture:**

10 U EcoRV	1 μL
10x buffer M* 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 overlapping

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

**Absence of contaminants:** 100 units of EcoRV 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 EcoRV, 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
	21	9	0	0	0	1

  

Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	10-25	100	50	<10	75	100

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

**BIORON GmbH – In den Rauheiden 20 - 67354 Römerberg (Germany)**

Phone +49 6232 298 45 0 - Fax +49 6232 298 45 29  
[info@bioron.net](mailto:info@bioron.net) [www.bioron.net](http://www.bioron.net)