

# EcoR I



Source: *Escherichia coli* RY 13.

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Cat.-No.	Size	Conc.
EN-114	200,000 units	10 u/μl

**Buffer supplied:** 10x *EcoR* I and 10x BSA.

**Substrate for unit definition:** λ DNA (5 sites).

**Reaction conditions:**

50 mM NaCl, 100 mM Tris-HCl (pH 7.4), 5 mM MgCl<sub>2</sub>, 0.025% Triton X-100, 100 μg/ml BSA.  
Incubate at **37°C**.

**Storage buffer:**

300 mM NaCl, 5 mM potassium phosphate buffer (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton X-100, 200 μg/ml BSA, and 50% glycerol.  
Store at -20°C.

**Ligation and recutting:**

After 50-fold overdigestion with *EcoR* I, >98% of the DNA fragments can be ligated and recut with this enzyme.

**Star activity:**

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

**Heat inactivation:** 65°C for 20 minutes.