



Data Sheet (20.02.2008)

**EcoR I**      5' ...GAATTC...3'  
3' ...CTTAAG...5'

Source: *Escherichia coli* RY 13

| Cat.-No.  | Size         | Conc.   |
|-----------|--------------|---------|
| mi-E0114S | 15,000 units | 10 u/μl |
| mi-E0114L | 75,000 units | 10 u/μl |

New unit quantity!

**Buffer supplied: 10x EcoR I (incl. BSA)**

**BSA is now already included into the buffer without any loss of performance!**

**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.

**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