

New High Efficiency TransforMax™ EC100 Electrocompetent *E. coli*

With a transformation efficiency of $>5 \times 10^9$ cfu/ μ g DNA (pUC19), EPICENTRE's new TransforMax™ EC100 electrocompetent *E. coli* are ideal for all cloning applications. And since TransforMax EC100 cells are restriction minus and lack transformation size bias against large inserts (like DH10B™ cells), they can be used to generate complete and unbiased primary cosmid and BAC libraries. Their high efficiency (Table), lack of size bias and other features also make them ideal for transformation of EZ::TN™ Transposon insertion clones or for generating deletion libraries using the EZ::TN pWEB::TNC™ cosmid and pPDM™ plasmid deletion vectors.

Transformation Efficiency: $> 5 \times 10^9$ cfu/ μ g DNA (pUC19)

Genotype

F⁻ *mcrA* Δ (*mrr-hsdRMS-mcrBC*) ϕ 80d*lacZ* Δ M15 Δ *lacX74* *recA1* *endA1* *araD139* Δ (*ara, leu*)7697 *galU* *galK* λ^- *rpsL* *nupG*

Relevant Phenotype

- Blue/white screening of vectors expressing the LacZ' α -complementing peptide.
- Restriction minus for efficient cloning of methylated (e.g. mammalian genomic) DNA.
- Accepts large clones for unbiased, primary cosmid and BAC library production.
- Endonuclease minus (*endA1*) to ensure high yields of plasmid clones.
- Recombination minus (*recA1*) to ensure the stability of large cloned inserts.



Table. TransforMax™ EC100 Electrocompetent *E. coli* have a higher transformation efficiency than competent cells from other vendors.

| | Transformation Efficiency (cfu/ μ g DNA)* |
|-----------------------------------|---|
| TransforMax™ EC100 <i>E. coli</i> | 9.2×10^9 |
| Competitor S | 5×10^9 |
| Competitor I | 4×10^9 |
| Competitor B | 3×10^9 |

*Average of eight independent transformations with a pUC vector. DH10B is a trademark of LTI.

TransforMax™ EC100 Electrocompetent *E. coli*

EC10005-F73 5 X 100 μ l (10 Electroporations)
 EC10010-F73 10 X 100 μ l (20 Electroporations)
 Each includes pUC19 Control DNA.

For more information, please visit our website at www.epicentre.com/catalog/ec100.htm

DNA Ligation in as little as 5 Minutes at room temperature! Fast-Link™ DNA Ligation Kit

EPICENTRE's Fast-Link™ DNA Ligation Kits are specially formulated to provide fast and efficient DNA ligations for both routine and high throughput cloning.

Fast and Efficient DNA Ligations

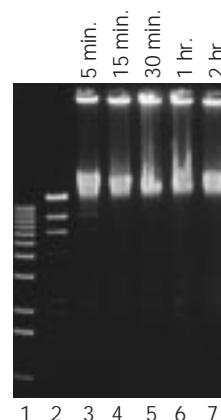
- Ligate cohesive-end DNA in 5 minutes at room temperature!
- Ligate blunt-end DNA in 15 minutes at room temperature!
- Ligate PCR product with A-overhangs in 1 hour or less at 16°C.

Transform Cells Without Desalting the Ligation Reaction

Desalting the DNA ligation reaction prior to electroporation is not necessary when using the Fast-Link DNA Ligation Kits.

For more information visit our website at www.epicentre.com/catalog/fastlink.htm

Figure . Time course for cohesive-end ligation using the Fast-Link Kit. *Lambda Hind III* markers were ligated in a standard Fast-Link reaction using 2 U of Fast-Link DNA Ligase (Lanes 3-7). Lane 1, 1 kb ladder; Lane 2, no enzyme.



Fast-Link™ DNA Ligation Kit

LK6201H-F73 100 ligations

Includes Fast-Link™ DNA Ligase, Fast-Link™10X Ligation Buffer, ATP