TransforMax EC100 elektrokompetente E. coli

Lucigen

TransforMAX™

10 x 100 µl

Artikel-Nr.: 190055 | Lucigen | Hersteller-Nr.: EC10010

370,80 €*

*zzgl. MwSt. zzgl. Versandkosten

Beschreibung

Produkttyp: Kompetente Zellen
Verpackung:10 x 100 µl

Applications

- Routine cloning of DNA up to 200 kb.

The highly versatile TransforMax™ EC100™ *E. coli* competent cells are ideal for most cloning applications. The cells provide very high transformation efficiency when tested against a wide range of supercoiled DNAs as well as DNA directly from a ligation reaction (Table 1).

Benefits

- High transformation efficiency with clones of all sizes, including BAC clones (Table 1).
- *lacZ?M15* for blue/white screening of recombinants.
- Restriction minus [*mcrA, ?(mrr-hsdRMS-mcrBC*)] enables efficient cloning of methylated DNA.
- Endonuclease minus (*endA1*) to ensure high yields of DNA.
- Recombination minus (*recA1*) for greater stability of large cloned inserts.

Genotype

F^- mcrA ?(mrr-hsdRMS-mcrBC) ?80dlacZ?M15 ?lacX74 recA1 endA1 araD139 ?(ara, leu)7697 galU galK ? rpsL (Str^R) nupG

TransforMax EC100 Electrocompetent *E. coli*

- Transformation efficiency of >1 x 10^{10} cfu/µg of pUC19.

TransforMax EC100 Chemically Competent *E. coli*

- Transformation efficiency of >5 x 10^8 cfu/µg of pUC19.

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DNA	TransforMax™ EC100™ Chemically Competent *E. coli*	TransforMax™ EC100™ Electrocompetent *E. coli*
pUC19	1.4×10^8	1.4×10^{10}
8.1-kb Clone	1.3×10^7	Not tested
13.1-kb Clone	4.3×10^6	1.3×10^9
23.1-kb Clone	9.2×10^5	3.0×10^8
145-kb BAC Clone	Not tested	7×10^7
13.1-kb clone directly from a ligation reaction	2.2×10^5	2.1×10^7

Table 1. Comparison of the transformation efficiencies of TransforMax™ EC100™ *E. coli* with a variety of DNAs. Transformations were performed using 50 µl of competent cells and either supercoiled DNAs of the indicated sizes or a 1-µl aliquot from a standard 10-µl ligation reaction. Results shown are in cfu/µg of DNA and are the average transformation efficiencies obtained from several trials.

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