

TOP10 Chemically Competent E. coli-10 reaction

Product Information

Product Name

TOP10 Chemically Competent E. coli-10 reaction

Research Area

Bacteria Competent Cells

Application

Bac-to-Bac

Function

Facilitates the construction of recombinant bacmid

Bacterial Strain

TOP10

Unit Size

10 reactions

Screening Method

Blue/White Screening

Cloning Methylated DNA

yes

Competent Cell Type

Chemically competent

F'episome (to make ssDNA)

Lacks F' Episome

High-throughput Compatibility

Not High-throughput Compatible

Preparing Unmethylated DNA

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Not Suitable for preparing unmethylated DNA

Propagating ccdB Vectors

Not for ccdB vector propagation

Reduces Recombination

yes

T1 Phage - Resistant (tonA)

no

Transformation Efficiency

$> 1 \times 10^9$

Transformation Efficiency Level

High Efficiency ($> 10^9$ cfu/ μ g)

Improves Plasmid Quality

yes

Shipping Condition

Dry Ice

Quantity

10 reactions

Format

one shot

Species

E. coli

Contents & Storage

1. One Shot TOP10 Chemically Competent E. coli: 11 vials, 50 μ l each
2. pUC19 DNA (10 pg/ μ l): 1 vial, 50 μ l

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3.S.O.C. medium: 1 bottle, 6 ml

Store Competent Cells at -80°C. Store pUC19 DNA at -20°C. Store SOC Medium at 4°C or at room temperature.

Feature

1. hsdR for efficient transformation of unmethylated DNA from PCR amplifications
 2. mcrA for efficient transformation of methylated DNA from genomic preparations
 3. lacZΔM15 for blue/white color screening of recombinant clones
 4. endA1 for cleaner DNA preparations and better results in downstream applications due to elimination of nonspecific digestion by Endonuclease I
 5. recA1 for reduced occurrence of nonspecific recombination in cloned DNA
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