

Cloning Competent Cells

Selection Guide

Name	Cat. No.	Transformation Efficiency	Blue/White Selection/ (<i>lacZ</i> ΔM15)	Low Recombination Rate (<i>recA</i>)	High Quality Plasmid DNA Prepared (<i>endA1</i>)	Cloning of Toxic Gene	Phage Resistance
<i>Trans10</i>	CD101	10 ⁸ cfu/μg DNA	•	•	•	•	—
<i>Trans5α</i>	CD201	10 ⁸ cfu/μg DNA	•	•	•	—	—
<i>Trans109</i>	CD301	10 ⁸ cfu/μg DNA	•	••	••	—	—
<i>Trans110</i>	CD311	10 ⁸ cfu/μg DNA	•	••	••	—	—
<i>Trans1-Blue</i>	CD401	10 ⁸ cfu/μg DNA	•	•	•	—	—
<i>Trans2-Blue</i>	CD411	10 ⁹ cfu/μg DNA	•	•	•	—	—
<i>Trans1-T1</i>	CD501	10 ⁹ cfu/μg DNA	•	•	•	—	•
DMT	CD511	10 ⁸ cfu/μg DNA	•	•	•	—	•
<i>TransStb3</i>	CD521	10 ⁸ cfu/μg DNA	—	•	—	—	—
<i>TransDB3.1</i>	CD531	10 ⁸ cfu/μg DNA	—	•	•	•	—

Trans10 Chemically Competent Cell

CD101-01	10×100 μl
CD101-02	20×100 μl

Storage

at -70°C for six months

Characteristics

- High transformation efficiency: >10⁸ cfu/μg (pUC19 DNA).
- Str^R.
- Blue/white selection.
- Toxic gene cloning and stable replication of plasmid DNA.

Genotype

F⁻ *mcrA* Δ(*mrr-hsdRMS-mcrBC*) φ80*lacZ*ΔM15 Δ*lacX74* *recA1* *araD139* Δ(*ara-leu*)7697 *galU galK rpsL* (Str^R) *endA1 nupG*

Trans5α Chemically Competent Cell

CD201-01	10×100 μl
CD201-02	20×100 μl

Storage

at -70°C for six months

Characteristics

- High transformation efficiency: >10⁸ cfu/μg (pUC19 DNA).
- Reduced recombination of cloned DNA.
- Blue/white selection.

Genotype

F⁻ φ80 *lacZ*ΔM15 Δ(*lacZYA-argF*) U169 *endA1* *recA1* *hsdR17* (*r_k⁻*, *m_k⁺*) *supE44λ-thi-1* *gyrA96* *relA1* *phoA*

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