

## Stellar™ Competent Cells

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Catalog No.	Amount	Lot Number
636763	10 x 100 µl	Specified on product label.

### Description

Stellar Competent Cells are an *E.coli* HST08 strain that provides high transformation efficiency. These cells can be used in a wide variety of applications—from preparation of cDNA and genomic libraries, to construction of longer-length genomic libraries, to subcloning, and even methylated DNA cloning. Stellar Competent Cells lack the gene cluster for cutting foreign methylated DNA (*mrr-hsdRMS-mcrBC* and *mcrA*), and are therefore useful for cloning methylated DNA. The cells can also be used for blue/white screening (i.e.,  $\alpha$ -complementation) when transformed with vectors containing the *lacZ $\alpha$*  gene. A pUC19 vector is provided as well as SOC Medium. Stellar Competent Cells are recommended for use with Clontech's In-Fusion™ PCR Cloning Kits.

### Package Contents

- 10 tubes Stellar Competent Cells (100 µl/tube)
- 10 tubes SOC Medium (1 ml/tube)
- 10 µl pUC19 Vector (0.1 ng/µl)

### Storage Conditions

- Store Stellar Competent Cells at  $-70^{\circ}\text{C}$ .
- Store all other components at  $-20^{\circ}\text{C}$ .

### Shelf Life

- Specified on product label

### Shipping Conditions

- Domestic: Dry ice ( $-70^{\circ}\text{C}$ )
- International: Dry ice ( $-70^{\circ}\text{C}$ )

### Product User Manuals

User manuals for Clontech products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals).

The following user manual applies to this product:

- Stellar Competent Cells Protocol (PT5055-2)

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## Genotype

*F*<sup>-</sup>, *endA1*, *supE44*, *thi-1*, *recA1*, *relA1*, *gyrA96*, *phoA*,  $\Phi$ 80d *lacZ*Δ *M15*, Δ(*lacZYA-argF*) *U169*, Δ(*mrr-hsdRMS-mcrBC*), Δ*mcrA*, λ<sup>-</sup>

## Quality Control Data

### Transformation Efficiency

We used the protocol in PT5055-2 to transform 50 μl of cells with 1 ng of pUC19. Transformants were selected on LB/Amp plates. The transformation efficiency was >5 × 10<sup>8</sup> colonies/μg pUC19.

### Confirmation of β-galactosidase α-complementation

When transformed with pUC19 DNA, and plated on LB agar containing 100 μg/ml ampicillin and 40 μg/ml X-Gal, blue colony formation was verified.

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This document has been reviewed and approved by the Clontech Quality Assurance Department.