

Stellar™ Competent Cells

Catalog No.

636763
Also sold as part of 632601, 632612, 632613,
632618, 632619, 632629, 632630, 634858, 634859,
636766, 638945, 638946, 638951 & 638952

Amount

10 x 100 µl

Lot Number

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, 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., α -complementation) when transformed with vectors containing the *lacZ α* gene. A pUC19 vector is provided as well as SOC Medium. Stellar Competent Cells are recommended for use with In-Fusion™ Snap Assembly cloning kits.

Package Contents

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

Storage Conditions

- Store Stellar Competent Cells at -70°C .
- Store SOC Medium and pUC19 Vector at -20°C .

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Stellar Competent Cells Protocol-At-A-Glance

Genotype

- *F*⁻, *endA1*, *supE44*, *thi-1*, *recA1*, *relA1*, *gyrA96*, *phoA*, Φ 80d *lacZ Δ M15*, Δ (*lacZYA-argF*) U169, Δ (*mrr-hsdRMS-mcrBC*), Δ *mcrA*, λ ⁻

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Certificate of Analysis

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Quality Control Data

Transformation Efficiency

Following the Stellar Competent Cells Protocol-At-A-Glance, 50 μ l of cells transformed with 1 ng of pUC19.

Transformants were selected on LB/Amp plates. The transformation efficiency was $>5 \times 10^8$ colonies/ μ g pUC19.

Confirmation of β -galactosidase α -complementation

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

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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8/3/2023