

Stellar™ Competent Cells (96-well plate)

Catalog No.
636767

Amount
96 x 20 µl

Lot Number
Specified on product label.

Description

Stellar Competent Cells arranged in a 96-well plate for high-throughput transformation. Stellar 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., α -complementation) when transformed with vectors containing the *lacZ α* gene. A pUC19 vector, SOC Medium, 8-Cap Strips, and a Plate Lid are included. These competent cells are recommended for use with Takara Bio's In-Fusion™ PCR Cloning Kits.

Package Contents

Box 1:

- 96 x 20 µl Stellar Competent Cells (96-well plate)

Box 2:

- 14 ml SOC Medium
- 10 µl pUC19 Vector (0.1 ng/µl)
- 12 8-Cap Strips
- 1 Plate Lid

Storage Conditions

- Store Box 1 at –70°C.
- Store Box 2 at –20°C.

Shelf Life

- Specified on product label.

Shipping Conditions

- Dry ice (–70°C)

Product Documents

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

The following documents apply to this product:

- Stellar Competent Cells (96-well plate) Protocol (PT5149-2)

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 636767

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Genotype

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

Quality Control Data

Transformation Efficiency

We used the protocol in PT5149-2 to transform Stellar Competent Cells with 0.1 ng of pUC19. Transformants were selected on LB/Amp plates. The transformation efficiency was $\geq 1 \times 10^8$ colonies/ μ g of pUC19 plasmid vector.

Confirmation of β -galactosidase α -complementation

When Stellar Competent Cells were 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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Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Takara Bio USA, Inc.

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