Certificate of Analysis

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PRODUCT: Stellar™ Electrocompetent Cells

CATALOG No. 636765

AMOUNT 10 transformations

LOT NUMBER
Specified on product label

STORAGE CONDITIONS
- Store Stellar Electrocompetent Cells at –70°C.
- Store all other components at –20°C.

SHELF LIFE
Specified on product label

SHIPPING CONDITIONS
Dry ice (–70°C)

DESCRIPTION
Stellar Electrocompetent Cells are an *E.coli* HST08 strain that provides high transformation efficiency, good reproducibility, and blue/white screening when paired with pUC plasmid vectors. These cells are specially made for transformation using the electroporation method. Stellar Electrocompetent Cells lack the gene cluster which digests foreign methylated DNA (*mrr-hsdRMS-mcrBC* and *mcrA*), and are therefore useful for cloning of methylated DNA, in addition to construction of genomic libraries and longer-length genomic libraries. A pUC19 vector is provided as well as SOC Medium.

PACKAGE CONTENTS
- 10 tubes Stellar Electrocompetent Cells (50 µl/tube)
- 10 tubes SOC Medium (1 ml/tube)
- 10 µl pUC19 Vector (10 pg/µl)
- Protocol-at-a-Glance (PT5057-2)

GENOTYPE
F^-, endA1, supE44, thi-1, recA1, relA1, gyrA96, phoA, Φ80d lacZΔ M15, Δ (lacZYA - argF) U169, Δ (mrr - hsdRMS - mcrBC), ΔmcrA, λ^-

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

Transformation efficiency:
10 pg of pUC19 was transformed and transformants were selected by Amp^+ selective media plating. Transformation efficiency was >4×10^9 transformants/µg pUC19.

Confirmation of β-galactosidase α-complementation:
Blue colonies appeared when pUC19 DNA was transformed and the transformed cells were plated on an L-broth agar medium containing 100 µg/ml of ampicillin and 40 µg/ml of X-Gal.

APPROVED BY: _____

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