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PRODUCT: Stellar™ Competent Cells (dam⁻/dcm⁻)

CATALOG No.	AMOUNT	DESCRIPTION
636764	10 transformations	Stellar Competent Cells (dam ⁻ /dcm ⁻) are an <i>E.coli</i> HST04 strain that lacks the genetic factors (dam and dcm) necessary for the methylation of DNA. Plasmids prepared using this product can be cut by restriction enzymes which are normally blocked by dam or dcm methylation. A dam/recA double mutation is lethal, so the parent strain is recA+. Therefore, it follows that transformation of extracellular DNA with repeat sequences can result in recombination by recA. This product is not a suitable cloning host. For transformation, it is highly recommended to use this product for constructing plasmids as mentioned above. A pUC19 vector is provided as well as SOC Medium.
LOT NUMBER		
Specified on product label		
STORAGE CONDITIONS		
<ul style="list-style-type: none"> • Store Stellar Competent Cells (dam⁻/dcm⁻) at -70°C. • Store all other components at -20°C. 		
SHELF LIFE		
Specified on product label		
SHIPPING CONDITIONS		
Dry ice (-70°C)		
PACKAGE CONTENTS		
<ul style="list-style-type: none"> • 10 tubes Stellar Competent Cells (dam⁻/dcm⁻) (100 µl/tube) • 10 tubes SOC Medium (1 ml/tube) • 10 µl pUC19 Vector (0.1 ng/µl) • Protocol-at-a-Glance (PT5056-2) 		
GENOTYPE:		
<i>F⁻, ara, Δ(lac-proAB) [Φ80d lacZΔM15], rpsL(str), thi, Δ(mrr-hsdRMS-mcrBC), ΔmcrA, dam, dcm</i>		

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

Transformation efficiency:

We used the protocol in PT5056-2 to transform 1ng of pUC19 plasmid vector. Selection was done on Amp⁺ plates. We obtained an efficiency >1 × 10⁶ colonies/µg of pUC19 plasmid vector.



Clontech

United States/Canada
800.662.2566

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.543.6116

Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Ave.
Mountain View, CA 94043
Technical Support (US)
E-mail: tech@clontech.com
www.clontech.com

APPROVED BY: _____

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