Lot 0006274652

Catalog Number 230132
Product Name BL21-Gold(DE3) Competent Cells
Expiration Date 2018-06-30
Quantity 10 × 100-µl aliquots
Certified By Todd Parsons
Quality Controlled By Tricia Molina
Shipping Conditions Shipped on dry ice.

Tube Color
Red-orange

Storage Conditions
Place cells at the bottom of a ~80°C freezer directly from the shipping container. Do not store in liquid nitrogen. Competent cells are sensitive to small temperature changes. Transferring tubes between freezers may result in a loss of efficiency.

Guaranteed Efficiency
≥1.0 × 10^6 cfu/µg pUC18 DNA

Antibiotic Resistance
BL21-Gold(DE3) competent cells are tetracycline resistant.

Genotype
E. coli B^F^-ompT hsdS (R^E^- mC^-) dcm^- Tet^- gal^+ (DE3) end4 Hfe

Test Conditions
Transformations are performed both with and without plasmid DNA using 100-µl aliquots of cells and 1 µl of pUC18 plasmid (0.1 ng/µl), according to the protocol outlined in the instruction manual. Following transformation, 5-µl samples of the culture are plated in duplicate on LB agar plates with 100 µg/ml of ampicillin. The plates are incubated at 37°C overnight and the efficiency is calculated based on the average number of colonies per plate.

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Agilent Technologies
1834 State Highway 71 West
Cedar Creek, TX 78612 USA

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