Tube Color
Clear

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
$\geq 1.0 \times 10^6$ cfu/μg pUC18 DNA

Antibiotic Resistance
BL21-Gold(DE3)/pLysS Competent Cells are tetracycline and chloramphenicol resistant.

Genotype
E. coli B F-ompT hsdSB (rB mB) dcm- Tet' gal'+ (DE3) endA1 hte [pLysS Cam']

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.