ThermoFisher SCIENTIFIC

Certificate of Analysis

Subcloning Efficiency™ DH5α

Product No.	18265017, 18265-017, 11583117
Lot No.	2808956B
Date of Manufacture	18-Jul-2024
Expiration Date	17-Jul-2026

Transformation Efficiency

Cells must have a transformation efficiency of >1 x 10^6; transformants/µg pUC19 (monomer) (non-saturating conditions).

Marker Identification

Inhibited growth in presence of nitrofurantoin (8 µg/ml), indicating the absence of recA

No growth on plates containing ampicillin (100 µg/ml), indicating the absence of any plasmid-encoded ampicillin resistance genes.

No growth on plates containing kanamycin (50 µg/ml), indicating the absence of any plasmid-encoded kanamycin resistance.

Less than or equal to 5 colonies on plates containing streptomycin (100 µg/ml), indicating the absence of any plamid-encoded streptomycin-resistance genes.

No growth on plates containing tetracycline (15 µg/ml), indicating the absence of any plasmid-encoded tetracycline resistance genes.

Exhibits growth on 2B plates, indicating the absence of any auxotrophic markers.

Exhibits growth of white colonies on X-gal IPTG plates, indicating a lac- phenotype.

Exhibits growth of red colonies on MacConkey galactose plates, indicating a gal+ phenotype.

Sterility

To verify the absence of bacteriophage contamination, 0.5-1.0 ml of competent cells are added to LB top agar and poured over LB plates. After overnight incubation, no plaques should be detected.

Overall Results

Product meets all specifications.

For Research Use Only. Not for use in diagnostic procedures.

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