

Certificate of Analysis

Subcloning Efficiency™ DH5α

Product No. 18265017, 18265-017, 11583117

Lot No. 2893782A

Date of Manufacture 06-Jan-2025

Expiration Date 15-Oct-2026

Transformation Efficiency

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

Marker Identification

Inhibited growth in presence of nitrofurantoin (8 $\mu\text{g}/\text{ml}$), indicating the absence of recA

No growth on plates containing ampicillin (100 $\mu\text{g}/\text{ml}$), indicating the absence of any plasmid-encoded ampicillin resistance genes.

No growth on plates containing kanamycin (50 $\mu\text{g}/\text{ml}$), indicating the absence of any plasmid-encoded kanamycin resistance.

Less than or equal to 5 colonies on plates containing streptomycin (100 $\mu\text{g}/\text{ml}$), indicating the absence of any plasmid-encoded streptomycin-resistance genes.

No growth on plates containing tetracycline (15 $\mu\text{g}/\text{ml}$), 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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A handwritten signature in purple ink, appearing to read 'Chevohn Joseph', with a long horizontal flourish extending to the right.

Chevohn Joseph
Director, Quality
Issued on 07-Jan-2025