



A Meridian Life Science® Company

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CERTIFICATE OF ANALYSIS

Catalog # BIO-85027
Product Name: Alpha-Select Gold Efficiency Competent Cell
Product Description: 20 x 50µl Chemically competent cells
Batch #: AG5-116C

Transformation efficiency

5 concentrations (non-saturating concentration) of supercoiled pUC19 plasmid DNA are transformed in duplicates into 50 µl of competent cells. Transformed cultures are plated on LB plates containing 100 µg/ml carbenicillin and incubated overnight at 37°C.

Transformation efficiency must be greater than 1×10^9 cfu/ug for each of the pUC19 DNA concentration.

Antibiotic sensitivity

Untransformed cells must exhibit no growth in the following selective agents on LB agar plate, indicating absence of specific resistance markers and low rate spontaneous mutation

- 100µg/ml Carbenicillin
- 50µg/ml Kanamycin
- 33µg/ml Chloramphenicol
- 12.5µg/ml Tetracycline
- 50µg/ml Spectinomycin (No more than 5 colonies)

Phenotypes & Contamination control

- Gal⁺ phenotype indicated by exhibit growth of bright red colonies on MacConkey galactose plates
- RecA⁻ phenotype indicated by exhibit no growth on 8µg/ml nitrofurantoin LB agar plate
- Lac⁻ marker indicated by white colonies on XGal/IPTG LB agar plate
- Absence of fungi contamination indicated by exhibit no growth on Sabouraud plate
- Absence of phage contamination, 0.5ml untransformed competent cells added to LB top agar and pour onto LB agar plate, incubate for 37°C over night. No plaques detected.

Result

Product meets all specification

This product is intended for research use only.

Released by: _____

Title: _____

Date: _____

QA/RA Senior Scientist

1/06/2016