



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 #:                        AG5-1151

### 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 ampicillin and incubated overnight at 37°C.

Transformation efficiency must be greater than  $1 \times 10^9$  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 Ampicillin
- 50µg/ml Kanamycin
- 33µg/ml Chloramphenicol
- 12.5µg/ml Tetracycline
- 50µg/ml Spectinomycin (No more than 5 colonies)


### Phenotypes & Contamination control

- Gal<sup>+</sup> phenotype indicated by exhibit growth of bright red colonies on MacConkey galactose plates
- RecA<sup>-</sup> phenotype indicated by exhibit no growth on 8mg/ml nitrofurantoin LB agar plate
- Lac<sup>-</sup> 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: Technical Services Officer  
Date: 15/09/2015