Certificate of Analysis

MultiShot™ FlexPlate TOP10 Competent Cells

Product No. C4081201
Lot No. 1977237
Date of Manufacture 19Apr2018

Transformation Efficiency

20 µl of competent cells in one well are transformed with 10 pg of supercoiled pUC19 plasmid DNA (non−saturating conditions). Test transformations are performed on a minimum of 2 plates per lot, 16 wells per plate. Transformed cultures are plated on LB plates containing 100 µg/ml ampicillin and incubated overnight at 37°C.

Transformation efficiency must be greater than or equal to 1.0 x 10^8 cfu/µg when transformed with pUC19.

Antibiotic Sensitivity

Cells must exhibit growth on LB medium plates.

Untransformed cells must show no growth on LB plates containing 100 µg/ml ampicillin, indicating the absence of any ampicillin resistance markers.

Untransformed cells must show no growth on LB plates containing 50 µg/ml kanamycin, indicating the absence of any kanamycin resistance markers.

Untransformed cells must show no growth on LB plates containing 15 µg/ml tetracycline, indicating the absence of any tetracycline resistance markers.

Untransformed cells must show no growth on LB plates containing 50 µg/ml Zeocin™, indicating the absence of any Zeocin™ resistance markers.

Untransformed cells must show no growth on LB plates containing 15 µg/ml chloramphenicol, indicating the absence of any chloramphenicol resistance markers.

Untransformed cells must exhibit growth on LB plates containing 25 µg/ml streptomycin, indicating the presence of streptomycin resistance markers.

Absence of Bacteriophage

To verify the absence of phage contamination, 0.1−1.0 ml of TOP10 competent cells are added to LB top agar and poured over LB plates. After overnight incubation at 37°C, no plaques should be detected.

Results

Product meets all specifications.

For Research Use Only. Not for use in diagnostic procedures. If you have any further questions about this Certificate of Analysis, please contact Technical Services at 1−800−955−6288 (US and Canada) or 1−760−603−7200, x2 (all other countries).

Thermo Fisher Scientific

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