

Certificate of Analysis

One Shot™ Mach1™ T1 Phage-Resistant Chemically Competent E. coli

Product No. C862003, 10512673

Lot No. 3078989A

Date of Manufacture 16-Jan-2025

Expiration Date 09-May-2026

Transformation Efficiency

50 µl of competent cells are transformed with 10 pg of supercoiled pUC19 plasmid DNA (non-saturating conditions). Test transformations are performed on a minimum of 3 vials per lot. Transformed cultures are plated on LB plates containing 100 µg/ml ampicillin and incubated overnight at 37°C.

Transformation efficiency must be greater than 1.0×10^9 cfu/µg pUC19.

Contamination and Marker Check

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 50 µg/ml chloramphenicol, indicating the absence of any chloramphenicol 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 100 µg/ml streptomycin, indicating the absence of streptomycin resistance markers.

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

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

Absence of Bacteriophage

To verify the absence of phage contamination, 0.5-1.0 ml of Mach1™-T1R 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.

This product is covered by U.S. Patent No. 4,981,797 and foreign equivalents.

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

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