

# **Certificate of Analysis**

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

Product No. C862003, 10512673

Lot No. 3078989

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 x 109 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  $\mu$ g/ml chloramphenicol, indicating the absence of any chloramphenicol resistance markers.

Untransformed cells must show no growth on LB plates containing 50 μg/ml Zeocin<sup>TM</sup>, indicating the absence of any Zeocin<sup>TM</sup> 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  $\mu$ g/ml spectinomycin, indicating the absence of spectinomycin resistance markers.

Untransformed cells must show no growth on LB plates containing 15  $\mu$ g/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<sup>™</sup>-T1<sup>R</sup> 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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Chevohn Joseph Director, Quality Issued on 30-Jan-2025