

# Certificate of Analysis

## MagicMedia™ E. coli Expression Medium, 1 L Liquid

Product No. K6803, 10412313

Lot No. K680312F2401

Date of Manufacture 12-Jun-2024

Expiration Date 13-Jun-2025

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### pH

Multiple samples from each lot are tested for pH. Measurements for Component A must be in the range of 6.6 to 7.1. Measurements for Component B must be in the range of 6.2 to 6.45.

### Conductivity

Multiple samples from each lot are tested for conductivity. Measurements for Component A must be in the range of 4.5 to 6.5 mS/cm. Measurements for Component B must be in the range of 55.0 to 70.0 mS/cm.

### Sterility

Multiple samples from each lot of Component A and Component B are tested for sterility. Samples are plated on tryptic soy agar and potato dextrose agar and incubated at 37°C and 28°C for 48 hours. The plates are inspected after 24 hours of incubation, then checked again after 48 hours of incubation. No fungal or bacterial growth should be observed after incubation.

### Color and Clarity

Multiple samples from each lot are visually inspected for color and clarity. The samples for Component A should appear clear and amber in color, and the optical density must be in the range of 0.015-0.090. The samples for Component B should be clear and colorless.

### Cell Growth and Protein Expression

Samples of the **complete media** (Component A + Component B) are inoculated with BL21(DE3) cells transformed with 1) pET303/CT-His or 2) pET302/NT-His plasmids expressing a control protein. The cells are grown to stationary phase and the optical density is measured. The optical density ( $\lambda = 600$ ) of each culture

after 18-24 hours of growth should be in the range of 38 to 58. Protein expression is quantified by lysing 50µl of each cell culture and analyzing the samples on a polyacrylamide gel against reference protein lysates. The control proteins from the test samples must be expressed at levels similar to the reference samples.

## Results

Product meets all specifications

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

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Issued on 03-Jul-2024