ThermoFisher SCIENTIFIC

Certificate of Analysis

MagicMedia™ E. coli Expression Medium, 1 L Liquid

Product No.	K6803, 10412313
Lot No.	K680303F2401
Date of Manufacture	03-Jun-2024
Expiration Date	04-Jun-2025

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 (λ = 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

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

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Chevohn Joseph
Director, Quality
Issued on 19-Sep-2024