

# Certificate of Analysis

## MagicMedia™ E. coli Expression Medium, powder

Product No. K6815, 15398136

Lot No. K681510A2401

Date of Manufacture 05-Jan-2024

Expiration Date 05-Jan-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 6.15 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 for Component B are inspected for color and clarity. The samples should appear 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.

Thermo Fisher Scientific  
Life Sciences Solutions  
5781 Van Allen Way  
Carlsbad, CA, USA 92008  
<https://www.thermofisher.com>  
For inquiries, contact us at [cofarequests@thermofisher.com](mailto:cofarequests@thermofisher.com)

A handwritten signature in blue ink, appearing to read 'Chevoehn Joseph', with a long horizontal flourish extending to the right.

Chevoehn Joseph  
Director, Quality  
Issued on 27-Aug-2024