

Thermo Fisher Scientific Microbiology 12076 Santa Fe Trail Drive Lenexa, KS 66215 800.255.6730 800.447.5761 fax www.thermofisher.com

thermoscientific

Certificate of Analysis - Certified Reference Material

Thermo Scientific TM Trademark Notes Product Number R4601971

Product Name E. coli ATCC 35218 PK/5

Lot Number 257334 Usage Decision Accepted (OK) Expiration Date 2026-10-28

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820.

The results were derived from a representative sample of the batch and were obtained at the time of release.

Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char Results

Purity Demonstrates pure growth on applicable media

Viability Recovered at acceptable level within test period Passage 3 (Current preserved state)

| Microbiological testing | Results | Specification | | |
|---|---------|----------------------|--|--|
| >85% Identification on Vitek 2C GN | 99 | 85 - 100 05 - 100 | | |
| >95% Identification on MicroSEQ Microscopic Features | Pass | 95 - 100 | | |

These tests are performed in accordance with ISO 17025 guidelines.

Thermo Fisher Scientific has determined each loop of this reference material to be sufficiently homogeneous for its intended use. Individual products are traceable to a recognized culture collection.

Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

Page **1** of **2** Printed on: 2025/06/13

Signed

Dawn Baker QA Manager

ATCC.

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Thermo Fisher Scientific is accredited by A2LA as a registered reference material producer certificate number 6559.01 in accordance with ISO 17034[1].

[1] ISO 17034 First Edition 2016-11-01 General requirements for the competence of reference material producers

Version 1.0

Page 2 of 2 Printed on: 2025/06/13

Laboratory Report

bioMérieux Customer: 1011208

System #: 504538

Autoprint Report Version: 1 of 1

Isolate: 257334-1 (To be reviewed)

Card Type: GN Bar Code: 2413032403022009 Testing Instrument: 00000B4D4CA6 (01783)

Setup Technologist: Amanda Wood(awood)

Bionumber: 0405610450026601

Organism Quantity:

Selected Organism: Escherichia coli

| - and the second second | |
|-------------------------|--|
| Comments: | |
| | |

McFarland:

| | | | Wici ai iaii | u. | | |
|------------------------|--------------|--------------|----------------|--------------------------------------|------------|------------------------|
| Identification | Card: GN | | Lot Number: | 2413032403 | Expires: | Mar 16, 2026 13:00 CDT |
| Information | Status: | Final | Analysis Time: | 2.60 hours | Completed: | Jun 11, 2025 17:55 CDT |
| Organism Origin | VITEK 2 | | | | | |
| Selected Organism | 99% Prob | ability | Escherichia o | coli | | 8 |
| | Bionumb | er: 04056104 | 150026601 | Confidence: Excellent identification | | |
| Analysis Organisms and | d Tests to S | eparate: | | | | |
| Analysis Messages: | | | | | | |
| Contraindicating Typic | al Biopatte | rn(s) | | | | |

| Bio | Biochemical Details | | | | | | | | | | | | | | | | |
|-----|---------------------|---|----|------|---|----|-------|---|----|-------|---|----|-------|---|----|-------|---|
| 2 | APPA | - | 3 | ADO | - | 4 | PyrA | - | 5 | 1ARL | - | 7 | dCEL | - | 9 | BGAL | + |
| 10 | H2S | - | 11 | BNAG | - | 12 | AGLTp | - | 13 | dGLU | + | 14 | GGT | - | 15 | OFF | + |
| 17 | BGLU | - | 18 | dMAL | + | 19 | dMAN | + | 20 | dMNE | + | 21 | BXYL | - | 22 | BAlap | - |
| 23 | ProA | - | 26 | LIP | - | 27 | PLE | - | 29 | TyrA | - | 31 | URE | - | 32 | dSOR | + |
| 33 | SAC | + | 34 | dTAG | - | 35 | dTRE | + | 36 | CIT | - | 37 | MNT | - | 39 | 5KG | - |
| 40 | lLATk | - | 41 | AGLU | - | 42 | SUCT | - | 43 | NAGA | - | 44 | AGAL | + | 45 | PHOS | - |
| 46 | GlyA | - | 47 | ODC | + | 48 | LDC | + | 53 | 1HISa | - | 56 | CMT | + | 57 | BGUR | + |
| 58 | O129R | - | 59 | GGAA | - | 61 | 1MLTa | - | 62 | ELLM | + | 64 | lLATa | - | | | |

Laboratory Report

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Card Type: GN Bar Code: 2413032403022009 Testing Instrument: 00000B4D4CA6 (01783)
Setup Technologist: Amanda Wood(awood)

Bionumber: 0405610450026601

Organism Quantity:

Selected Organism: Escherichia coli

Action

Name (User ID)

Date/Time

Comment

Laboratory Report

bioMérieux Customer: 1011208

System #: 504538

Autoprint Report Version: 1 of 1

Isolate: 257334-2 (To be reviewed)

Card Type: AST-GN93 Bar Code: 6833098403269339 Testing Instrument: 00000B4D4CA6 (01783)

Setup Technologist: Amanda Wood(awood)

| Organism Quantity: | Selected Organism: Escherichia coli | 3 |
|--------------------|-------------------------------------|---|
| | | |
| Comments: | | |

McFarland:

| Identification Information | | |
|----------------------------|--|-----------|
| Organism Origin | Technologist | |
| | Escherichia coli | and the |
| Selected Organism | Entered: Jun 11, 2025 15:17 CDT | By: awood |
| Analysis Messages: | 1 | • |

McFarland:

| Susceptibility | Card: | AST-GN93 | Lot Number: | 6833098403 | Expires: | May 21, 2026 13:00 CDT |
|----------------|---------|----------|----------------|------------|------------|------------------------|
| Information | Status: | Final | Analysis Time: | 7.73 hours | Completed: | Jun 11, 2025 23:03 CDT |

| Antimicrobial | MIC | Interpretation | Antimicrobial | MIC | Interpretation |
|--|----------------------------------|----------------|---------------|---------|----------------|
| ESBL | NEG | - | Ertapenem | <= 0.5 | S |
| Ampicillin | >= 32 | R | Meropenem | <= 0.25 | S |
| Ampicillin/Sulbactam | >= 32 | | | <= 2 | S |
| Piperacillin/Tazobactam | <= 4 | S | Gentamicin | <= 1 | S |
| Cefazolin | <= 4 | S | Ciprofloxacin | <= 0.25 | S |
| Ceftazidime | <= 1 | S | Tigecycline | <= 0.5 | S |
| Ceftriaxone | eftriaxone <= 1 S Nitrofurantoin | | <= 16 | S | |
| Cefepime <= 1 S Trimethoprim/ Sulfamethoxazole | | <= 20 | S | | |
| Aztreonam | <= 1 | S | | | |

| AES Findings: | Last Modified: | Mar 21, 2019 14:44 CDT | Parameter Set: | CLSI+Natural Resistance |
|----------------------|----------------|------------------------|----------------|-------------------------|
| Confidence Level: | Consistent | | | |

Laboratory Report

bioMérieux Customer: 1011208 System #: 504538

Autoprint Report Version: 1 of 1

Isolate: 257334-2 (To be reviewed)

Card Type: AST-GN93 Bar Code: 6833098403269339 Testing Instrument: 00000B4D4CA6 (01783)

Setup Technologist: Amanda Wood(awood)

Organism Quantity:

Selected Organism: Escherichia coli

Action

Name (User ID)

Date/Time

Comment