



## Certificate of Analysis

Certificate No: BMDX/COA/P/175/2025

**Product Name:** Mueller Hinton II Agar

**Product Code:** FP90M2001

**Lot No:** 251029004

**Expiry date:** 04/02/2026

**Date of Analysis:** 29/10/2025 – 30/10/2025

**Parameter Requirement:** Physical, Chemical and Microbiological Analysis

| Physical & Chemical Test | Specification                                               | Results |
|--------------------------|-------------------------------------------------------------|---------|
| Color                    | Light to medium, yellow to tan, trace hazy to slightly hazy | Passed  |
| pH                       | 7.30 ± 0.1                                                  | Passed  |
| Hardness                 | Semi-solid with a firm, smooth, & bounces surface           | Passed  |
| Pour Depth/Thickness     | 4.00-4.50mm                                                 | Passed  |

| Microbiological Test                      | Antimicrobial Agent                         | Acceptable range (mm or (µg/mL) | Zone Diameter (mm) or MIC (µg/mL) |
|-------------------------------------------|---------------------------------------------|---------------------------------|-----------------------------------|
| <i>Escherichia coli</i> ATCC® 25922       | Gentamicin 10 µg                            | 19-26                           | 24                                |
|                                           | Amikacin 30 µg                              | 19-26                           | 23                                |
|                                           | Ampicillin 10 µg                            | 15-22                           | 17                                |
|                                           | Ceftazidime 30 µg                           | 25-32                           | 28                                |
|                                           | Tigecycline 15 µg                           | 20-27                           | 23                                |
| <i>Pseudomonas aeruginosa</i> ATCC® 27853 | Ceftazidime 30 µg                           | 22-29                           | 22                                |
|                                           | Amikacin 30 µg                              | 20-26                           | 26                                |
|                                           | Cefepime 30 µg                              | 25-31                           | 28                                |
|                                           | Imipenem 10 µg                              | 20-28                           | 24                                |
|                                           | Ciprofloxacin 5 µg                          | 25-33                           | 27                                |
|                                           | Gentamicin 10 µg                            | 17-23                           | 22                                |
|                                           | Colistin                                    | 0.25-2                          | 2.0                               |
| <i>Enterococcus faecalis</i> ATCC® 29212  | Trimethoprim-sulfamethoxazole 1.25/23.75 µg | ≥ 20                            | 25                                |
|                                           | Nitrofurantoin 300 µg                       | 18-24                           | 23                                |
|                                           | Penicillin                                  | 1-4                             | 2.0                               |
|                                           |                                             |                                 |                                   |
| <i>Staphylococcus aureus</i> ATCC® 25923  | Penicillin 10 units                         | 26-37                           | 31                                |
|                                           | Gentamicin 10 µg                            | 19-27                           | 27                                |
|                                           | Erythromycin 15 µg                          | 22-30                           | 26                                |
|                                           | Clindamycin 2 µg                            | 24-30                           | 26                                |
|                                           | Trimethoprim-sulfamethoxazole 1.25/23.75 µg | 24-32                           | 28                                |
| <i>Staphylococcus aureus</i> ATCC® 29213  | Vancomycin                                  | 0.5-2                           | 0.75                              |
| Uninoculated plate                        | No growth                                   | -                               | -                                 |

**Test Statement:**

1. Incubation at  $35 \pm 2^{\circ}\text{C}$  for 24 hours in ambient air.
2. Antibiotic susceptibility tests are performed in accordance with, and meet the acceptance limits of, the current ISO/TS 16782. Performance is assessed using CLSI methodology.

**Sample statement:**

1. Culture media were prepared according to procedure SP-PD-BMDX-02 Production Process Control and SP-PD-BMDX-11 Product Specification.
2. Culture media were kept at temperature conditions  $2-8^{\circ}\text{C}$ .
3. QC Organisms were prepared and followed according to procedure SP-QC-BMDX-07 Quality Control Testing and SP-PD-BMDX-11 Product Specification.

**Result:**

The information given is believed to be correct, all results reported in this certificate relate only to the product in this certificate of analysis according to SP-PD-BMDX-11 Product Specification.

**Sign by:**

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**Date:** 30/10/2025

