



## Certificate of Analysis

Certificate No: BMDX/COA/P/185/2025

**Product Name:** Mueller Hinton II Agar

**Product Code:** FP90M2001

**Lot No:** 251103004

**Expiry date:** 09/02/2026

**Date of Analysis:** 04/11/2025 – 05/11/2025

**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<br>(mm or (µg/mL) | Zone Diameter (mm)<br>or MIC (µg/mL) |
|----------------------------------------------|-------------------------------|------------------------------------|--------------------------------------|
| <i>Escherichia coli</i> ATCC® 25922          | Gentamicin 10 µg              | 19-26                              | 23                                   |
|                                              | Amikacin 30 µg                | 19-26                              | 22                                   |
|                                              | Ampicillin 10 µg              | 15-22                              | 17                                   |
|                                              | Ceftazidime 30 µg             | 25-32                              | 26                                   |
|                                              | Tigecycline 15 µg             | 20-27                              | 24                                   |
|                                              |                               |                                    |                                      |
| <i>Pseudomonas aeruginosa</i><br>ATCC® 27853 | Ceftazidime 30 µg             | 22-29                              | 23                                   |
|                                              | Amikacin 30 µg                | 20-26                              | 24                                   |
|                                              | Cefepime 30 µg                | 25-31                              | 26                                   |
|                                              | Imipenem 10 µg                | 20-28                              | 23                                   |
|                                              | Ciprofloxacin 5 µg            | 25-33                              | 26                                   |
|                                              | Gentamicin 10 µg              | 17-23                              | 21                                   |
|                                              | Colistin                      | 0.25-2                             | 2.0                                  |
| <i>Enterococcus faecalis</i> ATCC®<br>29212  | Trimethoprim-sulfamethoxazole | ≥ 20                               | 26                                   |
|                                              | 1.25/23.75 µg                 |                                    |                                      |
|                                              | Nitrofurantoin 300 µg         | 18-24                              | 23                                   |
|                                              | Penicillin                    | 1-4                                | 3.0                                  |
| <i>Staphylococcus aureus</i> ATCC®<br>25923  | Penicillin 10 units           | 26-37                              | 31                                   |
|                                              | Gentamicin 10 µg              | 19-27                              | 24                                   |
|                                              | Erythromycin 15 µg            | 22-30                              | 26                                   |
|                                              | Clindamycin 2 µg              | 24-30                              | 25                                   |
|                                              | Trimethoprim-sulfamethoxazole | 24-32                              | 25                                   |
|                                              | 1.25/23.75 µg                 |                                    |                                      |
| <i>Staphylococcus aureus</i> ATCC®<br>29213  | Vancomycin                    | 0.5-2                              | 0.50                                 |
| 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:** 05/11/2025

