

## Certificate of Analysis

Certificate No: BMDX/COA/P/392/2026

**Product Name:** MacConkey Agar  
**Product Code:** FP90M1001  
**Lot No:** 260409003  
**Expiry date:** 16/07/2026  
**Date of Analysis:** 10/04/2026 – 14/04/2026  
**Parameter Requirement:** Physical, Chemical and Microbiological Analysis

Physical & Chemical Test	Specification	Results
Color	Medium-dark, rose-tan, trace of slight hazy	Passed
pH	7.10 ± 0.2	Passed
Hardness	Semi-solid with a firm, smooth, & bounces surface	Passed
Pour Depth/Thickness	3.00-3.50mm	Passed

Microbiological Test	Specification	Results
<i>Escherichia coli</i> ATCC® 25922	Pink to red growth	Passed
<i>Proteus mirabilis</i> ATCC® 12453	Growth Colorless Inhibition of swarming	Passed
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype	Growth. Colorless	Passed
<i>Typhimurium</i> ATCC® 14028		
<i>Staphylococcus aureus</i> ATCC® 25923	No growth	Passed
<i>Enterococcus faecalis</i> ATCC® 29212	No growth	Passed
Uninoculated plate	No growth	Passed

### 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°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:



**Fairuz Ayuni Binti Abdul Halim**  
QC Executive  
BSc. in Microbiology with Honours  
Universiti Putra Malaysia

Date: 16/04/2026