

## Certificate of Analysis

Certificate No: BMDX/COA/P/445/2026

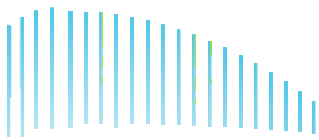
**Product Name:** CLED Agar / MacConkey Agar  
**Product Code:** SP90C1011  
**Lot No:** 260518002  
**Expiry date:** 24/08/2026  
**Date of Analysis:** 18/05/2026 – 20/05/2026  
**Parameter Requirement:** Physical, Chemical and Microbiological Analysis

Physical & Chemical Test	Specification	Results
Color	CLED Agar: Medium, yellow green to blue green, clear to slightly hazy	Passed
	MacConkey Agar: Medium dark, rose tan and trace slightly hazy	Passed
pH	CLED Agar: 7.30 ± 0.2	Passed
	MacConkey Agar: 7.10 ± 0.2	Passed
Hardness	Semi-solid with a firm, smooth, & bounces surface	Passed
Pour Depth/Thickness	CLED Agar: 3.00mm to 3.50mm	Passed
	MacConkey Agar: 3.00mm to 3.50mm	Passed

Microbiological Test	Specification	Results
<b>CLED Agar:</b>		
<i>Escherichia coli</i> ATCC® 25922	Growth; colonies yellow, medium yellow	Passed
<i>Proteus mirabilis</i> ATCC® 12453	Growth; colonies blue, medium blue-green to blue	Passed
<i>Staphylococcus aureus</i> ATCC® 25923	Growth; colonies small, yellow; medium yellow	Passed
<i>Proteus vulgaris</i> ATCC® 8427	Growth; colonies colorless to blue; swarming inhibited; slight spreading acceptable	Passed
Uninoculated plate	No growth	Passed
<b>MacConkey Agar:</b>		
<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 Typhimurium</i> ATCC® 14028	Growth; colorless	Passed
<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:**

- Culture media were prepared according to procedure SP-PD-BMDX-02 Production Process Control and SP-PD-BMDX-11 Product Specification.
- Culture media were kept at temperature conditions 2-8°C.
- 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:** 20/05/2026

