

## Certificate of Analysis

Certificate No: BMDX/COA/P/227/2025

**Product Name:** TCBS/ XLD Agar

**Product Code:** SP90T2011

**Lot No:** 251202002

**Expiry Date:** 27/01/2026

**Date of Analysis:** 03/05/2025 – 04/05/2025

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

Physical & Chemical Test	Specification	Results
Color	TCBS: Green slightly opalescent colored gel XLD: Red slightly opalescent colored gel	Passed Passed
pH	TCBS: $8.6 \pm 0.2$ XLD: $7.4 \pm 0.2$	Passed Passed
Hardness	Semi-solid with a firm, smooth & bounces surface	Passed
Pour Depth/Thickness	TCBS: 3.00-3.50mm XLD: 3.00-3.50mm	Passed Passed

Microbiological Test	Specification	Results
<b>TCBS Agar</b>		
<i>Vibrio alginolyticus</i> ATCC® 17749	Growth. Yellow colonies	Passed
<i>Vibrio parahaemolyticus</i> ATCC® 17802	Growth. Blue Green colonies	Passed
<i>Escherichia coli</i> ATCC® 25922	No Growth	Passed
Uninoculated plate	No Growth	Passed
<b>XLD Agar</b>		
<i>Salmonella enterica</i> subsp. <i>enterica</i> serotype <i>Typhimurium</i> ATCC® 14028	Red colonies, black centers	Passed
<i>Shigella flexneri</i> ATCC® 12022	Irregular red colonies	Passed
<i>Escherichia coli</i> ATCC® 25922	No growth or yellow colonies	Passed
<i>Enterococcus faecalis</i> ATCC® 29212	Inhibition partial to complete	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.



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**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:** 05/12/2025



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