OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

MYP AGAR CM0929

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Mannitol Egg Yolk Polymyxin Agar

Typical Formula*

Meat extract	grams per litre	1.0
Peptone		10.0
Mannitol		10.0
Sodium chloride		10.0
Phenol red		0.025
Agar		12.0

* adjusted as required to meet performance standards

Directions

Suspend 21.5g in 450ml of distilled water and bring gently to the boil to dissolve. Sterilize by autoclaving at 121°C for 15 minutes. Cool to approximately 49°C and aseptically add 50ml of Egg Yolk Emulsion (SR0047C) and the contents of one vial of Polymyxin B Supplement (SR0099E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - red
Moisture level - less than or equal to 7%
pH 7.2 ± 0.2 at 25°C
Clarity - clear
Gel strength - equivalent to 12.0g/litre of agar

Microbiological Tests using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 30 ± 2°C for 24 ± 3 hours

Tested with the addition of Polymyxin B Supplement SR0099 and 10% v/v Egg Yolk Emulsion SR0047

Medium is challenged with 10-100 colony-forming units

Bacillus cereus	ATCC®10876	3-10mm bright pink colonies with halo

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A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Reactions after incubation at 30 ± 2°C for 44 ± 4 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Pseudomonas aeruginosa	ATCC®27853	No growth

Negative strains are inhibited.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 30 ± 2°C for 24 ± 3 hours

Medium is challenged with 50-120 colony-forming units

Bacillus cereus	ATCC®11778	WDCM00001	3-10mm bright pink colonies with halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Reactions after incubation at 30 ± 2°C for 44 ± 4 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Escherichia coli	ATCC®8739	WDCM00012	No growth
Escherichia coli	ATCC®25922	WDCM00013	No growth
Bacillus subtilis	ATCC®6633	WDCM00003	No growth or 1-2mm yellow/orange colonies, no halo

Negative strains are inhibited or produce a negative diagnostic reaction (i.e. yellow/orange colonies and no halo).

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Update to new format and correction of typographical/minor errors.	N/A	N/A
Physical Characteristics	Clarity change from opaque to clear	Change control	MOC-2023-0118