Technical Information

Pseudomonas MiVeg Agar Base

Product Code : VM1085

Application:- Pseudomonas MiVeg Agar Base with added supplement is recommended for the selective isolation of *Pseudomona* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 2	16.0
MiVeg hydrolysate	10.0
Potassium sulphate	10.0
Magnesium chloride, anhydrous	1.4
Agar	11.0
Final pH (at 25°C)	7.1 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Pseudomonas MiVeg Agar Base is prepared by using MiVeg peptone No.2 and MiVeg hydroylsate instead of Gelatin peptone and Caesin enzymic hydrolysate thus making the medium free from BSE/TSE risks. Pseudomonas MiVeg Agar Base is themodification of King's A medium (1). Goto and Enomoto (2) formulated Cetrinix supplement for the selective isolation of *Pseudomonas aeruginosa* from clinical specimens. Lowbury and Collins (3) studied cetrimide as a selective agent. Cetrinix supplement suppresses *Klebsiella, Proteus* and *Providencia* species.
C-F-C Supplement was formulated by Mead and Adams (4) making the medium specific for *Pseudomonas* isolation from chilled foods and processing plants, environmental samples and water. Magnesium chloride and potassium sulphate enhances pigment production.
Examine inoculated plates after 24 hours and 48 hours using both white and UV light. The presence of blue-green or brown pigmentation may be considered as presumptive evidence of *Pseudomonas aeruginosa*. *Alteromonas* species may form brown or pink colonies on the medium.

Methodology

Suspend 24.2 grams of powder media in 500 ml distilled water containing 5 ml glycerol. Mix well and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile rehydrated contents of either Cetrinix supplement (MS2029) or CFC Supplement (MS2036) as desired. Mix well before pouring into sterile plates.

Note: Do not keep molten agar for longer than 4 hours.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.1% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 4.84% w/v aqueous solution is pH 7.1 ± 0.2 at 25°C.

pH Range

6.9-7.3

Cultural Response/Characteristics

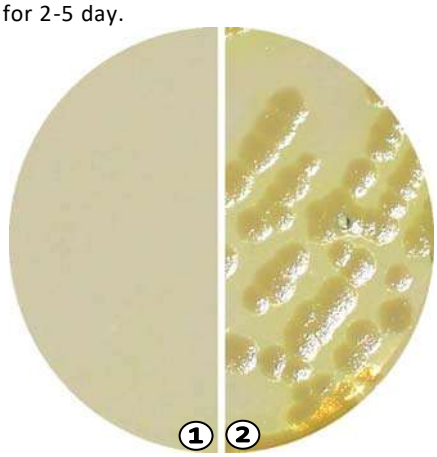
Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth (at 35-37^{0}C)*	Growth (at 25-27^{0}C)**
Escherichia coli (25922)	10^2-10^3	inhibited	inhibited
Proteus vulgaris (13315)	10^2-10^3	inhibited	_
Pseudomonas aeruginosa (27853)	10^2-10^3	luxuriant	_
Pseudomonas cepacia (10661)	10^2-10^3	_	luxuriant
Staphylococcus aureus (25923)	10^2-10^3	_	inhibited

Key : * = with Cetrinix supplement (MS2029)
** = with C.F.C. supplement (MS2036)

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.
Prepared Media: 2-8^0 in sealable plastic bags for 2-5 day.



VM1085 Pseudomonas MiVeg Agar Base

1. Control
2. *Pseudomonas aeruginosa*

Further Reading

1. King E.O., Ward M.K. and Raney D.E., 1954, J.Lab and Clin. Med., 44:301.
2. Goto S. and Entomoto S., 1970, Jap. J. Microbiol., 14:65.
3. Lowbury E.J. and Collins A.G., 1955, Clin. Path., 8:47.
4. Mead G.C. and Adams B.W., 1977, Br. Poult. Sci., 18:661.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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