

Technical Information

Feeley Gorman MiVeg Agar

Product Code : VM1811

Application:- Feeley Gorman MiVeg Agar is recommended for the isolation and presumptive identification of *Legionella* species.

Composition

Ingredients	Gms / Litre
MiVeg acid hydrolysate	17.50
MiVeg extract	3.00
Starch	1.50
L-Cystine hydrochloride	0.40
Ferric pyrophosphate, soluble	0.25
Agar	17.00
Final pH (at 25°C)	6.9 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Feeley Gorman MiVeg Agar is prepared by adding vegetables peptones in place of animal based peptones which makes the medium free from BSE/TSE risks. This medium is the modification of media devised by Feeley et al (1) which is used as a non selective enrichment media for isolation of *Legionella* species.

MiVeg acid hydrolysate, MiVeg extract, act as sources of nutrients. Incubation should be carried out in the presence of 2.5% carbon-dioxide but if it exceeds, *Legionella* growth is inhibited due to the formation of acidic condition. It is recommended to inoculate F.G. MiVeg Agar and *Legionella* MiVeg Agar (VM1809) with supplements simultaneously, as *Legionella* usually do not grow initially on F.G. MiVeg Agar. *Legionella* species can be identified by their characteristic fluorescence in presence of UV light (2, 3).

Methodology

Suspend 40 grams of powder media in 1000ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C. Mix well before pouring into petriplates.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.7% Agar gel.

Colour and Clarity of prepared medium

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

Reaction

Reaction of 4.0% w/v aqueous solution is pH 6.9 ± 0.2 at 25°C.

pH Range

6.7 – 7.1

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C after 4 days under 2.5% CO₂.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Fluorescence under 366 nm
<i>Legionella pneumophila</i> (33153)	10 ² -10 ³	good-luxuriant	>70%	Bright yellow
<i>Legionella bozemannii</i> (33217)	10 ² -10 ³	good-luxuriant	>70%	Blue-white
<i>Legionella micdadei</i> (33218)	10 ² -10 ³	good-luxuriant	>70%	none

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° in sealable plastic bags for 2-5 days.

Further Reading

1. Feeley J.C., et al, 1978, J. Clin. Microbiol., 8(3): 320.
2. Herbert G.A., et al, 1959, Ann. Intern. Med., 92(1):45.
3. Herbert G.A., et al, 1980, Ann. Intern. Med., 92(1):53

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