Technical Information

Feeley Gorman MiVeg Broth

Product Code : VM1812

Application:- Feeley Gorman MiVeg Broth 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-Cysteine hydrochloride	0.40
Ferric pyrophosphate, soluble	0.25
Final pH (at 25°C)	6.9 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Feeley Gorman MiVeg Broth is prepared by adding MiVeg acid hydrolysate and MiVeg extract in place of Casein hydrolysate and Beef Extract thus making the media free from BSE/TSE risks. Feeley Gorman MiVeg Broth 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 and MiVeg extract supplies necessary 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 Broth and Legionella MiVeg Broth (VM1809) with supplements simultaneously as *Legionella* usually do not grow initially on F.G. MiVeg Broth. Legionella species can be identified by their characteristic fluorescence in presence of UV light (2, 3).

Methodology

Suspend 23 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.

Colour and Clarity of prepared medium

Yellow coloured, clear solution in tubes.

Reaction

Reaction of 2.3% 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% CO_2.

Organisms (ATCC)	Inoulum (CFU)	Growth	Recovery	Fluorescence under 366 nm
Legionella pneumophila (33153)	10^2-10^3	good-luxuriant	>70%	Bright yellow
Legionella bozemanni (33217)	10^2-10^3	good-luxuriant	>70%	Blue-white
Legionella micdadei (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: 2-8^0 in sealable plastic bags for 2-5 day.

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

Disclaimer :

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