

Technical Information

Motility Test MiVeg Medium

Product Code : VM1260

Application:- Motility Test MiVeg Medium is used for detection of bacterial motility.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	10.0
Sodium chloride	5.0
Agar	5.0
Final pH (at 25°C)	7.2±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Motility Test MiVeg Medium is prepared by using vegetable peptone in place of animal based peptones thereby makes the medium free from BSE/TSE risks. This Medium is the modification of the medium reported by Tittsler and Sandholzer for detecting the motility of bacteria (1).

It contains MiVeg hydrolysate No.1 which supplies nitrogenous compounds, carbon and trace ingredients. The center of the medium is inoculated by stabbing. Incubate at appropriate temperature for 18 to 40 hours. Non-motile organisms grow only along the line of inoculation whereas motile organisms shows diffused growth even throughout the medium. Comparison should be made with an un-inoculated control.

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow tubed medium to cool in an upright position.

Quality Control

Physical Appearance

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

Gelling

Semisolid, comparable with 0.5% Agar gel.

Colour and Clarity of prepared medium

Light yellow coloured, clear to slightly opalescent semi solid gel forms in tubes as butt.

Reaction

Reaction of 2.0 % w/v aqueous solution pH: 7.2 ±0.2 at 25°C

pH range

7.0-7.4

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

Organisms (ATCC)	Growth	Motility
<i>Enterobacter aerogenes</i> (13048)	luxuriant	+
<i>Escherichia coli</i> (25922)	luxuriant	+
<i>Klebsiella pneumoniae</i> (13883)	luxuriant	-



Dehydrated Culture Media
Bases / Media Supplements

Salmonella serotype Enteritidis (13076) luxuriant +

Staphylococcus aureus (25923) luxuriant -

Key : + = growth away from stabline (motile)

- = growth along the stabline (non-motile)

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. Tittsler and Sandholzer, 1936, J. Bact., 31:575

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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