Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Listeria Motility MiVeg Medium

Product Code : VM2215

Application:- Listeria Motility MiVeg Medium is recommended to study motility of *Listeria monocytogenes*.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	20.00
MiVeg peptone	6.1
Agar	3.5
Final pH (at 25°C)	7.3 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Listeria Motility MiVeg Medium is prepared by adding vegetable peptones in place of animal based peptones thus making the medium free from BSE/TSE risks. This medium is the modification of Listeria Motility Medium for the determination of *Listeria monocytogenes* motility.

MiVeg hydrolysate and MiVeg peptone provide essential nutrients for the growth of organisms. *Listeria monocytogenes* motility is best demonstrated by stab inoculation into two tubes and incubating one at (20-25°C) i.e., at room temperature and other at 35°C. Motility is better observed at room temperature.

Methodology

Suspend 29.6 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium in an upright position.

Quality Control

Physical Appearance

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

Gelling

Semisolid, comparable with 0.35% Agar gel.

Colour and Clarity of prepared medium

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

Reaction

Reaction of 2.96% w/v aqueous solution is pH 7.3 ± 0.2 at 25°C.

pH Range

7.1-7.5

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at room temperature (25-30°C) for 24-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Motility
Listeria monocytogenes (19111)	10^2-10^3	luxuriant	+
Listeria monocytogenes (19112)	10^2-10^3	luxuriant	+
Listeria monocytogenes (19117)	10^2-10^3	luxuriant	+

Key : + = growth away from stab line (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: 2-8^0 in sealable plastic bags for 2-5 day.

Further Reading

1. Bailey and Scott's Diagnostic Microbiology, 1986, 7th ed., The C.V. Mosby Co., St. Louis.

Disclaimer :

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