

Technical Information

Mn MiVeg Agar Base

Product Code : VM1771

Application:- Mn MiVeg Agar Base is recommended for detection of *Leptothrix* species by its ability to oxidize manganous ion.

Composition

Ingredients	Gms / Litre
MiVeg extract	1.0
Yeast extract	0.075
Manganous carbonate	2.0
Ferrous ammonium sulphate	0.15
Sodium citrate	0.15
Agar	12.0

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Mn MiVeg Agar Base is prepared by using MiVeg extract in place of Beef extract, thus the medium becomes free from BSE/TSE risks. This medium is the modification of Mn Agar Base which is formulated in accordance with APHA (1) and is used as a differential medium (2) based on the ability of *Leptothrix* species to oxidize manganous ion.

It contains MiVeg extract and yeast extract which provides the essential growth nutrients in the medium. *Leptothrix-Sphaerotilus* derive energy by oxidation of ferrous sulphate.

Methodology

Suspend 15.4 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50-55°C and aseptically add filter sterilized solution of Cyanocobalamin to a final concentration of 0.005 mg/litre.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.2% Agar gel.

Colour and Clarity of prepared medium

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

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25°C for 24-48 hours

Organisms (ATCC)	Inoculum (CFU)	Manganous oxidation
<i>Leptothrix (Sphaerotilus discophorous)</i>	luxuriant	+
<i>Sphaerotilus natans</i> (13338)	good	-

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.



Dehydrated Culture Media
Bases / Media Supplements

Further Reading

1. Eaton A.D., Clesceri L.S. and Greenberg A.E., (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 16th ed, APHA, Washington DC.
2. Mulder E.G. and VanVeen W.L., 1963, Antonie Van Leeuwenhock (Holland), 29:121.

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