Technical Information

B.Y.E. MiVeg Agar Base

Product Code : VM1470

Application:- BYE MiVeg Agar Base is a simplified MiVeg selective medium developed for the cultivation of *Mycoplasma* or Pleuropneumonia like organisms and L-forms of bacteria.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 3	10.0
MiVeg special infusion	7.5
MiVeg infusion	10.0
Dextrose	2.0
Sodium chloride	5.0
Disodium phosphate	2.5
Yeast extract	2.0
Agar	13.0
Final pH (at 25°C)	7.9±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

BYE MiVeg Agar Base is prepared by using vegetable peptones instead of animal based peptones, thus the media becomes BSE/TSE risk free. This media is simple media developed for cultivation and routine studies of distribution, habitat and possible pathogenesis of *Mycoplasma* - Pleuropneumonia like organisms and L-forms of bacteria by Barile, Yaguchi and Eveland (1). Inoculations are made in duplicates. One set is incubated aerobically while the other anaerobically for 48 hours or more. Usually growth occurs within 3-5 days, however, negative results are reported after 10 days. Anaerobic conditions are most important for the first 3 days while secondary transfers can be incubated aerobically. This media can be used for isolation of PPLOS from urethritis, penile ulcerations and cervical specimens and L-forms of *Corynebacterium, Neisseria, Streptococcus*. This is also used for detecting PPLO contamination of tissue culture and cell-lines (2) and for membrane filter work (3).

Methodology

Suspend 52 grams of powder media in 850ml distilled water. Mix throughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and and add 150 ml of sterile human or animal blood or serum. Mix gently and pour into sterile plates.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.3 % Agar gel.

Colour and Clarity of prepared medium

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

Reaction

Reaction of 5.2% w/v aqueous solution is pH 7.9 ± 0.2 at 25°C.

pH range

7.7-8.1

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35°C for 5-10 days, under humidified anaerobic conditions.

Organisms (ATCC)	Growth
Mycoplasma bovis (25523)	good - luxuriant
Mycoplasma gallinarium (19708)	good - luxuriant
Mycoplasma pneumoniae (15531)	good - luxuriant
Streptococcus pneumoniae (6303	good - luxuriant

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 days.

Further Reading

1. Barile, Yaguchi, Eveland, 1958, Am. J. Clin, Path., 30:171.
2. Barile, 1962, National Cancer Institute Monograph, No.7:5.
3. Barile, 1962, J. Bact, 83:430.

Disclaimer :

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