

## Technical Information

### Folic Acid Culture MiVeg Agar

#### Product Code : VM1134

**Application:-** Folic Acid Culture MiVeg Agar is recommended for the maintenance of *Enterococcus faecium* ATCC 8043, which is used as a test organism for Folic Acid Assay MiVeg Medium.

#### Composition

Ingredients	Gms / Litre
MiVeg hydrolysate No.3	15.00
Yeast extract	5.00
Dextrose	10.00
Monopotassium phosphate	2.00
Tomato juice (100 ml)	5.00
Polysorbate 80	1.00
Agar	10.00
Final pH (at 25°C)	6.8 ± 0.2

\*\* Formula adjusted, standardized to suit performance parameters.

#### Principle & Interpretation

Folic Acid Culture MiVeg Agar is prepared by adding MiVeg hydrolysate No.3 which is free from BSE/TSE risks. This medium is the modification of Folic Acid Culture Agar which is formulated as described by Kavanagh (1) for maintenance of *Enterococcus faecium* ATCC 8043, the test organism for Folic Acid Assay Medium (2).

Yeast extract and MiVeg hydrolysate No.3 supplies the nitrogenous nutrients, vitamins and minerals for the growth of the test organisms. Dextrose is the energy source in the medium while tomato juice provides the growth factors. Polysorbate 80 maintains the surface tension of the medium to the optimal level while phosphate act as a buffering system of the medium.

#### Methodology

Suspend 48 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Distribute in tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Quality Control

##### Physical Appearance

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

##### Gelling

Firm, comparable with 1.0% Agar gel.

##### Colour and Clarity of prepared medium

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

##### Reaction

Reaction of 4.8% w/v aqueous solution is pH 6.8 ± 0.2 at 25°C.

##### pH Range

6.6 - 7.0

### Cultural Response/Characteristics

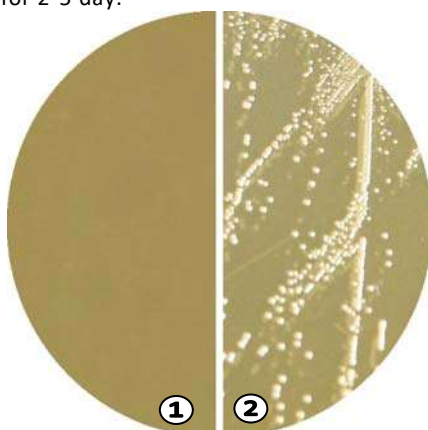
Cultural characteristics observed after an incubation at 35-37°C for 18 – 24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Enterococcus faecium</i> (8043)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant
<i>Lactobacillus casei</i> (7469)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant
<i>Lactobacillus plantarum</i> (8014)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant
<i>Lactobacillus leichmannii</i> (7830)	10 <sup>2</sup> -10 <sup>3</sup>	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° in sealable plastic bags for 2-5 day.



**VM1134 Folic Acid Culture MiVeg Agar**  
(Against dark background)

1. Control

2. *Enterococcus faecium*

## Further Reading

1. Kavanaugh F., 1963, Analytical Microbiology, Academic Press, New York.
2. Official Methods of Analysis of AOAC International, 2005, 18<sup>th</sup> ed., Vol. II, Association of Analytical Chemists, Arlington, Virginia, USA.

## 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.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.