

## Technical Information

### Folic Acid Inoculum MiVeg Medium

#### Product Code : VM1541

**Application:-** Folic Acid Inoculum MiVeg Medium is recommended for the inoculation 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
Final pH (at 25°C)	6.8 ± 0.2

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

#### Principle & Interpretation

Folic Acid Inoculum MiVeg Medium is prepared by adding MiVeg hydrolysate No.3 which is free from BSE/TSE risks. This medium is the modification of Folic Acid Inoculum Medium which is formulated as described by Kavanagh (1) for inoculation 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 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 38 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. Cool the tubes rapidly in an upright position.

#### Quality Control

##### Physical Appearance

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

##### Colour and Clarity of prepared medium

Medium amber coloured, clear solution in tubes.

##### Reaction

Reaction of 3.8% 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



Dehydrated Culture Media  
Bases / Media Supplements

<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.

## 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 :

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