

Folic Acid Culture HiVeg™ Agar / Folic Acid Inoculum HiVeg™ Medium

MV134 / MV541

Folic Acid Culture HiVeg Agar and Folic Acid Inoculum HiVeg Medium are recommended for the inoculation and maintenance of *Enterococcus faecium* ATCC 8043, which is used as a test organism for Folic Acid Assay HiVeg Medium.

Composition** :

Ingredients	MV134	MV541
	Grams/Litre	Grams/Litre
HiVeg hydrolysate No.3	15.00	15.00
Yeast extract	5.00	5.00
Dextrose	10.00	10.00
Monopotassium phosphate	2.00	2.00
Tomato juice (100 ml)	5.00	5.00
Polysorbate 80	1.00	1.00
Agar	10.00	-

Final pH (at 25°C) 6.8 ± 0.2

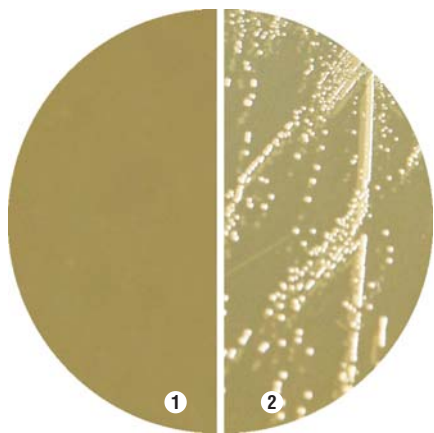
** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 48 grams of MV134 or 38 grams of MV541 in 1000 ml distilled water. 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.

Principle and Interpretation :

These media are prepared by using HiVeg hydrolysate No.3 which is free from BSE/TSE risks. These media are the modification of Folic Acid Culture Agar and Folic Acid Inoculum Medium which are formulated as described by Kavanagh (1) for inoculation and maintenance of *Enterococcus faecium* ATCC 8043, the test organism for Folic Acid Assay Medium (2). Yeast extract and HiVeg hydrolysate No.3 supply mainly the nitrogenous nutrients, vitamins and minerals to 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 serves as the salt for buffering the medium.



MV134 Folic Acid Culture HiVeg Agar
(Against dark background)

1. Control
2. *Enterococcus faecium*

Product Profile :

Vegetable based (Code MV)Ⓞ	Animal based (Code M)
MV134/MV541 HiVeg hydrolysate No.3	M134/M541 Peptonized milk
Recommended for	: The inoculation and maintenance of <i>Enterococcus faecium</i> ATCC 8043
Reconstitution	: (MV134) : 48.0 g/l : (MV541) : 38.0 g/l
Quantity on preparation (100g)	: (MV134) : 2.08 L : (MV541) : 2.63 L
pH (25°C)	: 6.8 ± 0.2
Supplement	: None
Sterilization	: 121°C / 15 minutes.
Storage	: Dry Medium and Prepared Medium 2 - 8°C.

Quality Control :

Appearance of Powder

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

Gelling

Firm, comparable with 1.0% Agar gel of MV134.

Colour and Clarity

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

Reaction

Reaction of 4.8% w/v of MV134 or 3.8% w/v of MV541 aqueous solution is pH 6.8 ± 0.2 at 25°C.

Cultural Response

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 ² -10 ³	luxuriant
<i>Lactobacillus casei</i> (7469)	10 ² -10 ³	luxuriant
<i>Lactobacillus plantarum</i> (8014)	10 ² -10 ³	luxuriant
<i>Lactobacillus leichmannii</i> (7830)	10 ² -10 ³	luxuriant

References :

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