

Micro Vitamin Test Culture HiVeg™ Agar/ Micro Vitamin Test Inoculum HiVeg™ Broth

MV132 / MV133

Micro Vitamin Test HiVeg media are recommended for cultivation and maintenance of stock cultures of *Lactobacilli* used in microbiological assays of vitamins.

Composition** :

Ingredients	MV132	MV133
	Grams/Litre	Grams/Litre
Yeast extract	20.00	20.00
HiVeg peptone	5.00	—
HiVeg peptone No.3	—	5.00
Dextrose	10.00	10.00
Monopotassium phosphate	2.00	2.00
Polysorbate - 80	0.10	0.10
Agar	15.00	—

Final pH (at 25°C) 6.7 ± 0.2

** Formula adjusted, standardized to suit performance parameters

Directions :

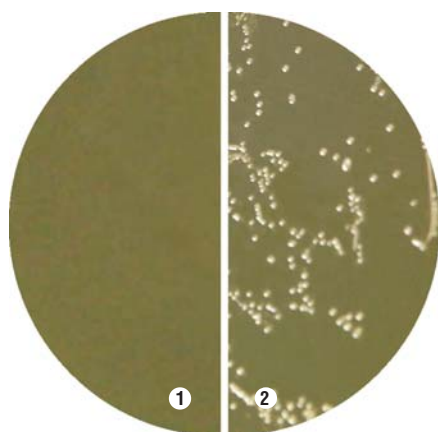
Suspend 52.1 grams of MV132 or 37.1 grams of MV133 in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Micro Vitamin Test HiVeg media are the modifications of Micro Vitamin Test media which are used for carrying stock cultures of *Lactobacilli* and other test organisms used in microbiological assays (1). These media can be used for routine cultivation of *Lactobacilli*.

HiVeg peptone or HiVeg peptone No.3 and yeast extract provide essential nutrients such as nitrogen, sulphur, vitamins etc. for growth. Dextrose is the energy source. Polysorbate 80 is the fatty acid source.

Stock cultures are prepared by stab inoculation in triplicate. One is used for the preparation of stock cultures while others are used for inoculum preparation for assays. Transfer of cultures should be made at weekly or biweekly intervals.



MV132 Micro Vitamin Test Culture HiVeg Agar
(Against dark background)

1. Control
2. *Lactobacillus leichmannii*

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV132/MV133 HiVeg peptone HiVeg peptone No. 3	M132/M133 Peptic digest of animal tissue Protease peptone
Recommended for	: Cultivation and maintenance of stock cultures of <i>Lactobacilli</i> used in microbiological assays of vitamins.
Reconstitution	: (MV132) : 52.1 g/l : (MV133) : 37.1 g/l
Quantity on preparation (100g)	: (MV132) : 1.91 L : (MV133) : 2.69 L
pH (25°C)	: 6.7 ± 0.2
Supplement	: None
Sterilization	: 121°C / 15 minutes
Storage	: Dry Medium - Below 30°C, 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 1.5% Agar gel of MV132.

Colour and Clarity

Light yellow coloured, clear to slightly opalescent gel forms in petri plates, clear solution in tubes.

Reaction

Reaction of 5.2% w/v of MV132 or 3.71% w/v of MV133 aqueous solution is pH 6.7 ± 0.2 at 25°C.

Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 48 hours.

Organisms (ATCC)

Lactobacillus leichmannii (7830)
Lactobacillus plantarum (8014)
Lactobacillus viridescens (4797)
Lactobacillus casei (9595)

Growth

good-luxuriant
good-luxuriant
good-luxuriant
good-luxuriant

References :

1. Atlas R.M., 1993, Handbook of Microbiological Media, Parks L.C. (Ed.), CRC Press, Inc.