

Yeast Malt HiVeg™ Agar / Broth

MV424 / MV425

Yeast Malt HiVeg Agar / Broth (YM HiVeg Agar / Broth) is used for the isolation and cultivation of yeasts, moulds and other aciduric microorganisms.

Composition :**

Ingredients	MV424	MV425
	Grams/Litre	Grams/Litre
HiVeg peptone	5.00	5.00
Yeast extract	3.00	3.00
Malt extract	3.00	3.00
Dextrose	10.00	10.00
Agar	20.00	—

Final pH (at 25°C) 6.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters

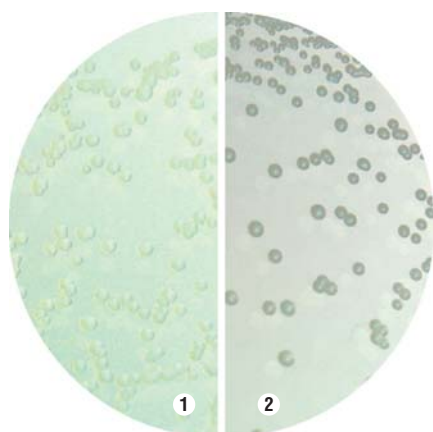
Directions :

Suspend 41.0 grams of MV424 or 21.0 grams of MV425 in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For preparing selective media acidify the media upto pH 3.0 to 4.0 or add antibiotics. DO NOT HEAT the media after addition of acid or antibiotics.

Principle and Interpretation :

These media are prepared by replacing peptic digest of animal tissue with HiVeg peptone which is free of BSE/TSE risks. Yeast Malt HiVeg Agar/Broth are the modification of Yeast Malt Agar / Broth formulated as per Wickerham (1, 2) for isolation and cultivation of yeasts, moulds and other aciduric microorganisms. Fungistatic materials such as sodium propionate and diphenyl are added to YM HiVeg Agar / Broth to eliminate moulds and thus permits enumeration of yeasts from mixed population.

Yeast Malt HiVeg Broth can be used as an enrichment medium for yeasts by adding a layer of sterile paraffin oil (about 1 cm) on the surface of inoculated broth. After the growth occurs it should be streaked on YM HiVeg Agar to



MV424 Yeast Malt HiVeg Agar

1. *Saccharomyces cerevisiae*
2. *Candida albicans*

Product Profile :

Vegetable based (Code MV)©	Animal based (Code M)
MV424/MV425 HiVeg peptone	M424/M425 Peptic digest of animal tissue

Recommended for : Isolation and cultivation of yeasts, moulds and other aciduric microorganisms.

Reconstitution : (MV424) : 41.0 g/l
: (MV425) : 21.0 g/l

Quantity on preparation (500g) : (MV424) : 12.19 L
(100g) : (MV424) : 2.43 L
(500g) : (MV425) : 23.8 L
(100g) : (MV425) : 4.76 L

pH (25°C) : 6.2 ± 0.2

Supplement : None

Sterilization : 121°C / 15 minutes.

Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

obtain isolated colonies of fermentative species. To isolate fermentative as well as oxidative strains, acidified YM HiVeg Broth is placed on a rotary shaker for 1 or 2 days which favours development of yeast cells while the sporulation of moulds is prevented. Yeasts can be further isolated by streaking on YM Agar.

Quality Control :

Appearance of Powder

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

Gelling

Firm, comparable with 2.0% Agar gel of MV424.

Colour and Clarity

Light amber coloured, very slightly opalescent gel forms in petri plates, very slightly opalescent solution in tubes.

Reaction

Reaction of 4.1% w/v of MV424 or 2.1% w/v of MV425 aqueous solution is pH 6.2 ± 0.2 at 25°C.

Cultural Response

Cultural characteristics observed after an incubation at 25-30°C for 40 -72 hours.

Organisms (ATCC)	Growth at pH 3.4	Growth at pH 6.2
<i>Aspergillus niger</i> (16404)	good-luxuriant	good-luxuriant
<i>Candida albicans</i> (10231)	good-luxuriant	good-luxuriant
<i>Saccharomyces cerevisiae</i> (9763)	good-luxuriant	good-luxuriant
<i>Lactobacillus leichmannii</i> (4797)	poor	good-luxuriant
<i>Escherichia coli</i> (25922)	inhibited	good-luxuriant

References :

1. Wickerham, 1939, J. Tropical Med. Hyg., 42:176.
2. Wickerham, 1951, U.S. Dept. Agric. Tech. Bull. No. 1029.