Fungi Kimmig HiVeg™ Agar Base MV1010

Fungi Kimmig HiVeg Agar Base is used for cultivation, identification and preservation of fungal strains.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	9.3
HiVeg hydrolysate	4.3
Sodium chloride	11.4
Dextrose	10.0
Agar	15.0

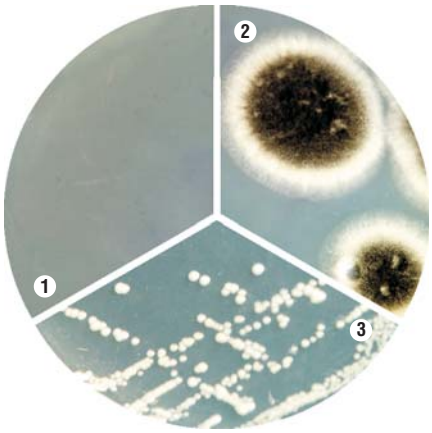
Final pH (at 25°C) 6.5 ± 0.2
** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 50 grams in 1000 ml distilled water containing 5 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired, selective medium is obtained by aseptically adding filtered solutions of 0.4 gram Cycloheximide, 40,000 IU Penicillin, 40 mcg Streptomycin, 80 mg Colistin and 100 mg Novobiocin in a previously cooled sterile medium. Mix well and pour plates.

Principle and Interpretation :

This medium is prepared by using HiVeg peptone and HiVeg hydrolysate in place of Peptic digest of animal tissue and Casein enzymic hydrolysate respectively which makes the medium free of BSE/TSE risks. Fungi Kimmig HiVeg Agar Base is the modification of Fungi Kimmig Agar Base which is formulated as described by Kimmig and Rieth for the cultivation, identification and preservation of fungal strains (1). The appearance of growth on Fungi Kimmig HiVeg Agar Base, like the conventional medium, is considered as an important criteria in identification of fungal stains (2).



MV1010 Fungi Kimmig HiVeg Agar Base
1. Control
2. *Aspergillus niger*
3. *Saccharomyces cerevisiae*

Product Profile :

Vegetable based (Code MV)◉	Animal based (Code M)
MV1010 HiVeg peptone HiVeg hydrolysate	**M1010** Peptic digest of animal tissue Casein enzymic hydrolysate

Recommended for	:	Cultivation, identification and preservation of fungal strains.
Reconstitution	:	50.0 g/l
Quantity on preparation (500g)	:	10.0 L
pH (25°C)	:	6.5 ± 0.2
Supplement	:	Glycerol, Antibiotics, if desired
Sterilization	:	121°C / 15 minutes.

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

The medium contains HiVeg peptone and HiVeg hydrolysate which provides nitrogenous nutrients. Dextrose is the carbohydrate source while sodium chloride maintains osmotic balance of the medium. This medium can also be used as a base for preparing selective agars. Addition of antibiotics like Cycloheximide, Penicillin, Streptomycin, Colistin, Novobiocin etc. inhibit the growth of many gram-positive, gram-negative bacteria and also some fungi like *Saccharomyces*.

Quality Control :

Appearance of powder
Yellow to light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling
Firm, comparable with 1.5% Agar gel.

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

Reaction
Reaction of 5.0% w/v aqueous solution containing 0.5% v/v glylcerol is pH 6.5 ± 0.2 at 25°C.

Cultural Response
Cultural characteristics observed after an incubation at 25 - 30°C for upto 5 days.

Organisms (ATCC)	Growth (without antibiotics)
Aspergillus niger (16404)	good-luxuriant
Candida albicans (10231)	good-luxuriant
Saccharomyces cerevisiae (9763)	good-luxuriant

References :

1. Kimmig J. and Rieth H., 1953, Antimykotica in Experiment and Klinik, Arzneimittelforsch 3:267.
2. Rieth H., 1969, Mykosen, 12:73.

◉ Prepared from GMO free Vegetable proteins replacing Animal based peptones. Freedom from BSE/TSE worries.