Technical Information

Fungi Kimmig MiVeg Agar Base

Product Code :VM2010

Application:- Fungi Kimmig MiVeg Agar Base is used for the identification, cultivation, and preservation of fungal strains.

Composition

Ingredients	Gms / Litre
MiVeg peptone	9.3
MiVeg 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.

Principle & Interpretation

Fungi Kimmig MiVeg Agar Base is prepared by adding MiVeg peptone and MiVeg hydrolysate in place of Peptic digest of animal tissue and Casein enzymic hydrolysate respectively thus making the medium free from BSE/TSE risks. Fungi Kimmig MiVeg 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). Like conventional medium appearance of growth on Fungi Kimmig MiVeg Agar, is considered as an important criteria for identification of fungal strains (2).

MiVeg peptone and MiVeg hydrolysate provides nitrogenous nutrients for the growth of fungi. Dextrose act as 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*.

Methodology

Suspend 50 grams of powder media in 1000 ml distilled water containing 5 ml glycerol. Mix thoroughly. 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.

Quality Control

Physical Appearance

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 of prepared medium

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.

pH Range

6.3 - 6.7

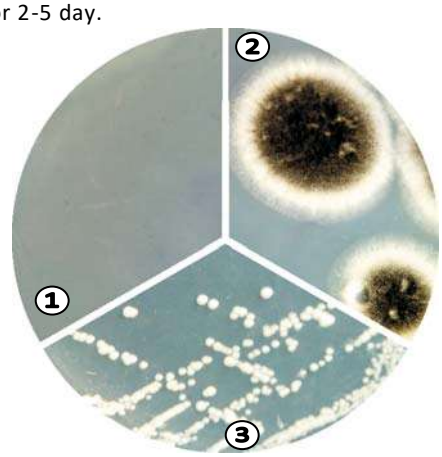
Cultural Response/Characteristics

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

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: 2-8^0 in sealable plastic bags for 2-5 day.



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1. Control
2. *Aspergillus niger*
3. *Saccharomyces cerevisiae*

Further Reading

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

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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