

Technical Information

Corn Meal MiVegPeptone Yeast Agar

Product Code : VM1731

Application:- Corn Meal MiVeg Peptone Yeast Agar is used for production of chlamydospore by *Candida albicans* and the maintenance of fungal stock cultures.

Composition

Ingredients	Gms / Litre
Cellulose	20.00
Dextrose	10.00
MiVeg peptone	10.00
Yeast extract	4.00
Agar	20.00
Final pH (at 25°C)	6.5±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Corn Meal MiVeg Peptone Yeast Agar is prepared by using MiVeg peptone instead of animal based peptone which makes it free from BSE/TSE risk. This medium is a general purpose used for the cultivation of fungi and for the study of *Candida* species for the chlamydospore production. Pollack and Benham (1) have described the usefulness of this medium for studying the morphology of *Candida*. Walker and Huppert (2) modified this medium by adding polysorbate 80, which then stimulated faster and plenty of chlamydospore formation of *Candida* species.

It contains MiVeg peptone that serves as carbon source & also provides other nutrients. Dextrose in the medium provides more luxuriant growth of some fungi as compared to the medium without dextrose. The acidic pH supports the growth of fungi. Cellulose serves as carbohydrate source, Yeast extract supplies essential nutritional requirement. Some *Candida* species lose their ability to form chlamydospore due to repeated subculturing. Corn Meal Agar with Glucose should not be used for chlamydospore production.

Methodology

Suspend 64.0 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, coarse, free flowing powder.

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured, opalescent gel forms in petri plates.

Reaction

Reaction of 6.4 % w/v aqueous solution 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°C for upto 4 days

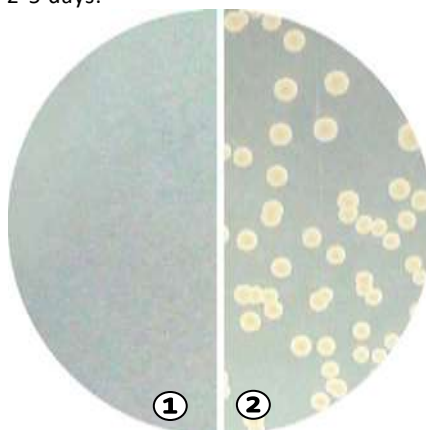
Organisms (ATCC)	Inoculum (CFU)	Growth	Chlamydospores
<i>Aspergillus niger</i> (16404)	10 ² -10 ³	luxuriant	-

<i>Candida albicans</i> (10231)	10^2 - 10^3	luxuriant	+
<i>Saccharomyces uvarum</i> (9080)	10^2 - 10^3	luxuriant	-
<i>Saccharomyces cerevisiae</i> (9763)	10^2 - 10^3	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° in sealable plastic bags for 2-5 days.



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1. Control

2. *Candida albicans*

Further Reading

1. Pollack and Benham, 1960, J. Lab. Clin. Med., 50:313.
2. Walker and Huppert, 1960, Tech. Bull. Reg. Med. Technol., 30:10.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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