

Technical Information

Kimmig Fungi MiVeg Agar Base

Product Code : VM2232

Application:- Kimmig Fungi MiVeg Agar Base is used for cultivation, isolation and identification of fungi.

Composition

Ingredients	Gms / Litre
MiVeg peptone	15.0
Sodium chloride	1.0
Dextrose	19.0
Cycloheximide	0.4
Agar	15.0
Final pH (at 25°C)	6.5 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Kimmig Fungi MiVeg Agar Base is prepared by adding MiVeg peptone in place of Peptic digest of animal tissue thus making the medium free from BSE/TSE risks. This medium is the modification of Kimmig Fungi Agar Base which is prepared as described by Kimmig and Rieth (1) for cultivation, isolation, identification and strain preservation of fungi. This medium promotes the development of growth forms which are used as important characteristic criteria in identification.

MiVeg peptone supplies the essential nitrogenous nutrients required for the growth of fungi. Dextrose act as a fermentable carbohydrate and energy source of the medium. Glycerol serves as the carbon source. Kimmig Fungi MiVeg Agar Base is used as a base for preparation of selective agars for isolation of fungi from heavily contaminated materials.

George et al (2) suggested addition of Cycloheximide, Penicillin and Streptomycin. Hantschke (3) suggested use of Colistin and Novobiocin. In the present medium a combination of Cycloheximide, Penicillin, Streptomycin, Colistin

Methodology

Suspend 50.4 grams of powder media in 1000 ml distilled water. Add 5ml glycerol. Mix well and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add reconstituted contents of two vials of Kimmig Supplement (MS2111) or two vials of George Kimmig Selective Supplement (MS2112). Mix well before pouring into sterile plates.

Warning: Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.

Quality Control

Physical Appearance

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

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

Reaction

Reaction of 5.04% w/v aqueous solution is pH 6.5 ± 0.2 at 25°C.

pH Range

6.3 - 6.7

Cultural Response/Characteristics

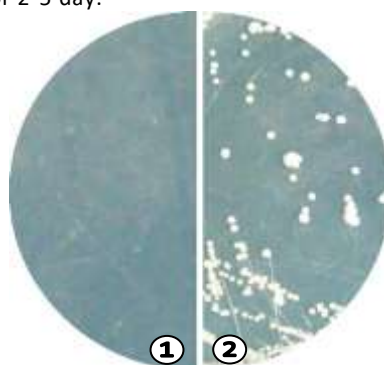
Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours (longer if required) after addition of Kimmig Supplement (MS2111) or George Kimmig Selective Supplement (MS2112).

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	luxuriant
<i>Candida albicans</i> (10231)	luxuriant
<i>Penicillium notatum</i> (10108)	luxuriant
<i>Trichophyton mentagrophytes</i> (9533)	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 day.



VM2232 Kimmig Fungi MiVeg Agar Base
(Against dark background)
1. Control
2. *Candida albicans*

Further Reading

1. Kimmig, J. and Rieth H., 1953, *Arzneimittelforsch*, 3:267.
2. George L.K., Ajello L. and Papageorge C., 1954, *J. Lab. Clin. Med.*, 44:422.
3. Hantschke D., 1968, *Mykosen*, 11:769.

Disclaimer :

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