Technical Information

Kimmig Fungi Agar Base

Product Code: DM 2232

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

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	15.000
Sodium chloride	1.000
Dextrose	19.000
Cycloheximide	0.400
Agar	15.000
Final pH (at 25°C)	6.5±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Kimmig Fungi Agar is prepared as described by Kimmig and Rieth (1) for cultivation, isolation, identification and strain preservation of fungi. Fungi identification is usually carried out by examining the hyphae or spores formed by fungi on the medium plates. Rieth later stated that this medium promotes the development of growth forms, which are used as important characteristic criteria in identification (2).

The medium contains peptic digest of animal tissue, which provides the necessary nitrogenous nutrients for the growth of fungi. Dextrose is the fermentable carbohydrate and energy source. Glycerol serves as the carbon source.

Kimmig Fungi Agar Base is used as a base for preparation of selective agars for isolation of fungi from heavily contaminated materials. George et al (3) suggested addition of cycloheximide, penicillin and streptomycin while Hantschke (4) suggested the use of colistin and novobiocin.

Methodology

Suspend 50.40 grams of dehydrated media in 1000 ml distilled water, containing 5ml glycerol. Mix thoroughly & heat to boiling to dissolve the medium completely. 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 Selective Supplement (MS 2111) or two vials of George Kimmig Selective Supplement

(MS 2112). Shake well before pouring into sterile plates.

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

Quality Control

Appearance
Cream to yellow homogeneous free flowing powder

Gelling
Firm, comparable with 1.5% Agar gel

Colour and Clarity
Light yellow coloured, clear to slightly opalescent gel forms in Petri plates

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

pH Range
6.30-6.70

Cultural Response
DM 2232: Cultural characteristics observed with added Kimmig Supplement (MS 2111) or George Kimmig Selective Supplement (MS 2112), after an incubation at 25- 30°C for 48-72 hours.

Organism	Growth
Cultural Response	
**Aspergillus brasiliensis ATCC 16404*	luxuriant
Candida albicans ATCC 10231	luxuriant
Pencillium notatum ATCC 10108	luxuriant
Trichophyton mentagrophytes ATCC 9533	luxuriant

Storage and Shelf Life

Dried Media: Store dehydrated powder and the prepared medium at 2-8°C in tightly closed container. Use before expiry period on the label
Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Kimmig J. and Rieth H., 1953, Arzneimittelforsch, 3:267.
2. Rieth H., 1969, Mykosen, 12: 73.
3. George L. K., Aiello L. and Papageorge C., 1954. J. Lab. Clin. Med., 44.422.
4. Hantschke D., 1968, Mykosen, 11:769.

Disclaimer :

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