

Technical Information

Fungi Kimmig Agar Base

Product Code: DM 2010

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

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	9.300
Casein enzymic hydrolysate	4.300
Sodium chloride	11.400
Dextrose	10.000
Agar	15.000
Final pH (at 25°C)	6.5±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Fungi identification is usually carried out by examining the hyphae or spores formed by fungi on the medium plates. Rieth found that Fungi Kimmig Agar Base promotes the development of growth forms, which are used as important characteristic criteria for identification ⁽¹⁾. Fungi Kimmig Agar formulated as described by Kimmig and Rieth is used for the cultivation, identification and preservation of fungal strains ⁽²⁾. The appearance of growth on Kimmig Agar is considered as important criteria in identification of fungal strains ⁽¹⁾. This medium can also be used as a base for preparing selective agars.

The medium contains peptic digest of animal tissue and casein enzymic 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 cycloheximide, as per Georg et al ⁽³⁾ and antibiotics like penicillin, streptomycin, according to Hantschke ⁽⁴⁾ and 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. Shake well & heat 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 filter sterilized solutions of 0.40 gm 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 in sterile Petri plates.

Quality Control

Physical Appearance

Cream to yellow 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 at 25°C. pH : 6.5±0.2

pH Range 6.30-6.70



Dehydrated Culture Media
Bases / Media Supplements

Cultural Response/Characteristics

M2010: Cultural characteristics observed with added antibiotics after an incubation at 25-30°C for 5-7 days.

Organism

Growth (without antibiotics)

**Aspergillus brasiliensis* ATCC 16404

good-luxuriant

Candida albicans ATCC 10231

good-luxuriant

Saccharomyces cerevisiae ATCC 9763

good-luxuriant

Trichophyton mentagrophytes ATCC 18748

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: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. Rieth H., 1969, Dermatophyten, Hefen und Schimmelpilze auf Kimmig-Agar. Mykosen, 12:73-74.
2. Kimmig J. U., Rieth H., 1953, Antimykotica in Experiment and Klinik, Arzneimittelforsch 3:267-276.
3. Georg L. K., Ajello L. and Papageorge C., 1954, J. Lab. Clin. Med.; 44:422.
4. Hantschcke D., 1968, Mykosen 11; 769-778.

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