

**FUNGI KIMMIG AGAR BASE****TM 1189**

For cultivation, isolation, identification and preservation of fungal strains

Composition

Ingredients	Gms/Ltr.
Agar	15.00
Sodium chloride	11.40
Dextrose	10.00
Papaic digest of animal tissue	9.30
Casein enzymatic hydrolysate	4.30

* Dehydrated powder, hygroscopic in nature, store in a dry place in tightly-sealed containers below 25°C and protect from direct Sunlight.

Instructions for Use

Dissolve 50gms in 1000ml distilled water. Gently heat to boiling with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes. Cool to around 40 – 45°C. 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 and dispense into sterile Petri plates.

Appearance: Medium amber colour, clear to slightly opalescent gel

pH (at 25°C): 6.5 ± 0.2

Principle

FUNGI KIMMIG AGAR BASE is used for selective cultivation, isolation, identification and preservation of fungal strains. Many different culture media have been developed for the growth of fungi. In comparison with media for the majority of bacterial strains, fungal media are of simple composition, usually consisting of a peptone and dextrose. Selectivity is achieved by lowering the pH, incorporating dyes or adding antimicrobial agents. "Kimmig and Rieth" formulated this medium. Papaic digest of animal tissue and Casein enzymatic hydrolysate provides nitrogen, vitamins and minerals sources to the medium. Dextrose is a fermentable carbohydrate preferred for most fungi. Sodium chloride maintains the osmotic equilibrium of the medium. Agar is solidifying agent. Addition of antibiotic medium to this medium inhibits gram positive, gram negative as well as some strain of *Saccharomyces*.

Interpretation

Cultural characteristics observed after inoculation (10³ CFU/ml), on incubation at 25 - 30°C for 72 – 168 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Aspergillus niger</i>	16404	10 ³	Luxuriant
<i>Candida albicans</i>	10231	10 ³	Luxuriant
<i>Trichophyton mentagrophytes</i>	9763	10 ³	Luxuriant

References

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.