

## TM 1189 – FUNGI KIMMIG AGAR BASE

### INTENDED USE

For cultivation, isolation, identification and preservation of fungal strains.

### PRODUCT SUMMARY AND EXPLANATION

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

### COMPOSITION

Ingredients	Gms / Ltr
Peptone	9.300
Tryptone	4.300
Sodium chloride	11.400
Dextrose (Glucose)	10.000
Agar	15.000

### PRINCIPLE

The medium consists of peptone and tryptone, which provides nitrogenous and carbonaceous nutrients, long chain amino acids and other essential growth 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, according to Georg et al and antibiotics like penicillin, streptomycin, according to Hantschke and colistin, novobiocin etc. inhibit the growth of many gram-positive, gram-negative bacteria and also some fungi like *Saccharomyces*.

### INSTRUCTION FOR USE

- Dissolve 50.0 grams in 1000 ml purified/distilled water containing 5 ml glycerol.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°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.
- Mix well and pour in sterile Petri plates.

### QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.  
**Appearance of prepared medium** : Medium amber coloured, clear to slightly opalescent gel forms in Petri plates.  
**pH (at 25°C)** : 6.5 ± 0.2

### INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	Good-luxuriant	>=50%	25-30°C	5- 7 Days
<i>Candida albicans</i>	10231	10-100	Good-luxuriant	>=50%	25-30°C	5- 7 Days
<i>Saccharomyces cerevisiae</i>	9763	10-100	Good-luxuriant	>=50%	25-30°C	5- 7 Days
<i>Trichophyton mentagrophytes</i>	18748	10-100	Good-luxuriant	>=50%	25-30°C	5- 7 Days

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

- Georg L. K., Ajello L. and Papageorge C., 1954, J. Lab. Clin. Med.; 44:422.
- Hantschcke D., 1968, Mykosen 11; 769-778.
- Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
- Kimmig J. U., Rieth H., 1953, Antimykotika in Experiment and Klinik, Arzneimittelforsch 3:267-276.
- Rieth H., 1969, Dermatophyten, Hefen und Schimmelpilze auf Kimmig-Agar. Mykosen, 12:73-74.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	



**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
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