TM 2046 – CORN MEAL AGAR W/ DEXTROSE

INTENDED USE
For cultivation of phytopathological and other fungi.

PRODUCT SUMMARY AND EXPLANATION
Corn Meal Agar is a general purpose medium used for the cultivation of fungi and for the study of *Candida* species for the chlamydospore production. Corn Meal Agar with Dextrose is used for the cultivation of commonly occuring as well as phytopathological fungi. The addition of dextrose enhances the chromogenesis of some species of Trichophyton. Pollack and Benham have described the usefulness of this medium for studying the morphology of Candida. Corn Meal Agar should not be used for chlamydospores production Some *Candida* species lose their ability of chlamydospore formation by repeated sub culturing.

COMPOSITION

Ingredients	Gms / Ltr
Corn meal, infusion from	2.000
Dextrose (Glucose)	2.000
Agar	15.000

PRINCIPLE
The contains corn meal infusion, dextrose and agar. However, this infusion has enough nutrients to enhance the growth of fungi. Addition of dextrose to the medium supports more luxuriant growth of some fungi as compared to the medium without dextrose, but dextrose supplemented.

INSTRUCTION FOR USE
- Dissolve 19 grams in 1000 ml purified / distilled water.
- 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.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Cream to yellow homogeneous coarse powder.
Appearance of prepared medium : Light amber coloured, opalescent gel forms in Petri plates.
pH (at 25°C) : 6.0±0.2

INTERPRETATION
Cultural characteristics observed after incubation. (For observing Chlamydospore formation: Using a straight wire, make a deep cut in the Corn Meal Agar plate with inoculum. Place a flamed sterile coverslip over the line of inoculum. After incubation, the streaks are examined microscopically, through the coverslip, using low and high power objectives, for chlamydospore formation.)

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Chlamydospores	Incubation Temperature	Incubation Period

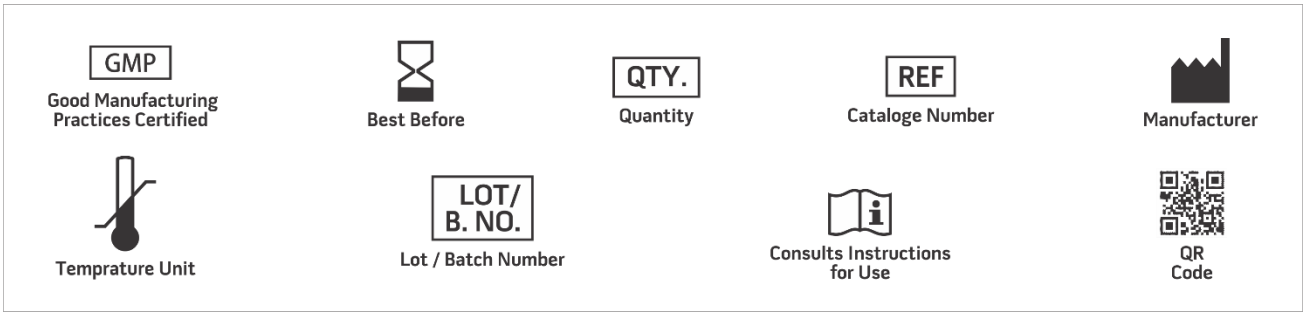
Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70%	Negative	23-27°C	Upto 4 days
Candida albicans	10231	10-100	Luxuriant	>=70%	Positive	23-27°C	Upto 4 days
Saccharomyces cerevisiae	9763	50-100	Luxuriant	>=70%	Negative	23-27°C	Upto 4 days
Saccharomyces uvarum	28098	50-100	Luxuriant	>=70%	Negative	23-27°C	Upto 4 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
1. Pollack and Benham, 1960, J. Lab. Clin. Med., 50:313.
2. Prospero, Magdalene T. and Reyes A. C., 1955, ActaMed, Phillipina 12(2), 69-74.



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