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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Corn Meal Agar

Principle

Corn meal agar is used for cultivation of fungi and also used to study chlamydospores production of Candida species. The media is simple and composed of corn meal infusion form and agar. The corn meal infusion form provides essential and complete nutrients essential for the growth of fungi. In media Polysorbate 80 is added, which is a mixture of oleic esters, helps to activate the production of chlamydospore by *Candida albicans, Candida stellatoidea* and *Candida tropicalis.* For chlamydospores study pick the suspected colony from Sabouraud dextrose agar plate.

Use: For production of chlamydospores by Candida albicans and a maintenance of fungal stock cultures.

Contents*

Ingredients	Gram/Liter
Corn meal, infusion form	2.00
Agar	15.00
pH at 25˚C	6.0 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 17.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. If desired add 1% polysorbate 80. Sterilize by autoclaving at 15 lbs pressure at 121°C. Cool to 45-50°C. Mix well and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Dairy and food samples.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Off white to light beige colored, free-flowing, homogeneous**
Reaction of 1.7% solution	**6.00 ±0.2 at 25 ˚C**
pH	**5.80- 6.20**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Milky white opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 25±2ºC for 3-5 days**
Indicative properties	**Optimum at ≤ 100 CFU at 25±2ºC for 3-5 days**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after an incubation at 25±2°C for 3-5 days. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Chlamydospores	Recovery
Candida albicans	10231	Luxuriant	Positive	≥ 70%
Aspergillus brasiliensis	16404	Luxuriant	Negative	≥ 70%
Saccharomyces cerevisiae	9763	Luxuriant	Negative	≥ 70%

Storage and Shelf Life: **The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution..**

Disposal: **To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.**

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Reference

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