

TECHNICAL DATA SHEET

Corn Meal Agar w/ Tween 80

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 use in qualitative procedures as general purpose media for the cultivation of fungi.

Contents*

Ingredients	Gram/Litre
Corn meal, infusion form	2.00
Tween 80	2.00
Agar	15.00
pH at 25°C	6.0 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 19.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. 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.

OXFORD LAB FINE CHEM LLP

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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 1.9% solution	6.00 $\pm$ 0.2 at 25 °C
pH	5.80- 6.20
Gelling	Firm
Color and clarity of ready medium	Milky white opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 23-27 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 23-27 °C for 24-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after an incubation at 25 $\pm$ 2°C for 48-72 hours.

Organism	ATCC	Growth	Chlamydospores
<i>Candida albicans</i>	10231	Luxuriant	Positive
<i>Aspergillus brasiliensis</i>	16404	Luxuriant	Negative
<i>Saccharomyces cerevisiae</i>	9736	Luxuriant	Negative

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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2. American Public Health Association, (1978) Standard Methods for the Examination of Dairy Products, 14th Ed., Washington D.C.
3. Salfinger Y., and Tortorello M.L. Fifth (Ed.), (2015), Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

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