

# Product Name : Corn Meal Agar

Medium for the cultivation of fungi.

## FORMULA (G/L)

Corn Meal Infusion ..... 2.0  
Agar ..... 15.0  
Final pH = 6.0 ± 0.2 at 25°C.

## DIRECTIONS

Suspend 17.0 G of powder in 1 L of distilled or deionized water. Add 1% of Tween 80 supplement (MB-T1861) or 1 % Dextrose, if desired. Heat to boiling until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Test samples of the finished product for performance using stable, typical control cultures.

## DESCRIPTION

Corn Meal Agar is a general-purpose medium for the cultivation of fungi. With the addition of Tween 80 supplement, it is utilized primarily for the testing of *Candida* species for their ability to produce chlamydo spores.

## TECHNIQUE

Prepare the medium per label directions. Test for chlamydo spore production. Using fresh cultures, streak two parallel lines approximately 1.5 cm long each and 1.0 cm apart. Make an S-shape by lightly streaking back and forth across the two parallel streak lines. Place a coverslip over the streak marks. Incubate at 25 ± 2°C for 4 days and examine microscopically.

Using an inoculating needle, streak the medium with growth from a pure culture and incubate at 25 ± 2°C. Examine at intervals for up to 28 days for growth and pigmentation. Corn Meal Agar with 1% Dextrose should be incubated for up to 4 weeks to allow sufficient time for pigmentation to develop.

## QUALITY CONTROL

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: coarse.

### Prepared medium

Appearance: slightly hazy to hazy.

Color: yellow to tan.

Incubation conditions: 25 ± 2°C / 4 days

Microorganism	ATCC	Growth	Chlamydo spore production
<i>Aspergillus niger</i>	16404	good	none
<i>Candida albicans</i>	10231	Good	present
<i>Candida albicans</i>	60193	Good	present
<i>Candida kefyr</i>	8553	Good	none

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## PERFORMANCE AND LIMITATIONS

Corn Meal Agar with Dextrose is not recommended for detecting the production of chlamyospores by *Candida* species.

## STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

## REFERENCES

- 1 Pollack and Benham. 1960. J. Lab. Clin. Med. *50:313*.
2. Walker and Huppert. 1960. Tech. Bull. Reg. Med. Technol. *30:10*.
3. McGinnis. 1980. Laboratory handbook of medical mycology. Academic Press, New York, N.Y.
4. Conant, Smith, Baker and Callaway. 1971. Manual of clinical mycology, 3rd ed. W.B. Saunders Co., Philadelphia, Pa.
5. Haley and Callaway. 1978. Laboratory methods in medical mycology. HEW Publication No. (CDC) 78-8361. Center for Disease Control, Atlanta, Ga.
6. Isenberg (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society for Microbiology, Washington, D.C.
7. Campbell and Stewart. 1980. The medical mycology handbook. John Wiley & Sons, New York, N.Y.

## PACKAGING

Cat. No : MB-C0606 Corn Meal Agar	500 G
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