

Aspergillus Agar (AFPA)



Medium used for the identification and determination of specific *Aspergillus* spp.

• CONTENTS (Liter)

Peptone	10.0 g
Yeast Extract	20.0 g
Ferric Ammonium Citrate	0.5 g
Dichloran	0.002 g
Agar	15.0 g
Final pH = 6.3 ± 0.2 at 25°C	

• PROCEDURE

Suspend 45.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Aseptically add 2 vials of Chloramphenicol supplement (MB-C1817). Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

Chloramphenicol supplement

1 vial contents (Each vial is sufficient for 500 mL of medium)

Chloramphenicol	0.05 g
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• INTERPRETATION

Aspergillus Agar (AFPA) is a medium used for the identification and determination of specific *Aspergillus* spp. Peptone and yeast extract are the nitrogen and vitamin sources. Ferric ammonium citrate assists in the production of orange yellow pigment characteristic of *A. flavus*, *A. paraditicus* and *A. brasiliensis*. Dichloran is the antifungal agent to reduce colony diameters of spreading fungi. Agar is the solidifying agent. Chloramphenicol is a broad-spectrum antibiotic and inhibits a wide range of Gram-negative and Gram-positive bacteria.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 30 ± 2°C for 48 - 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : opalescent

Color: amber

Incubation conditions: 30 ± 2°C / 48 - 72 hours

Microorganism	ATCC	Growth	Characteristics
<i>Aspergillus flavus</i>	22546	good	yellowish orange color under the colony
<i>Aspergillus parasiticus</i>	22789	good	yellowish orange color under the colony
<i>Aspergillus brasiliensis</i>	16404	good	pale yellow color under the colony black on the colony
<i>Escherichia coli</i>	25922	inhibited	-

• STORE

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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Beuchat, L. R. (1984) J. Food Protection 47: 512-519.
2. Pitt, J. I., Hocking, D. & Glenn, D. R. (1983) J. Appl. Bact. 54: 109-114.
3. Bothast, R. J. & Fennell, D. I. (1974) Mycologia 66: 365-369.
4. King, D. A., Hocking, A. D. & Pitt, J. I. (1979) J. Appl. & Environ. Microbiol. 37: 959-964.
5. Jarvis, B. (1973) J. Appl. Bact. 36: 723-727.

• PACKAGE

Cat. No : MB-A0697 Aspergillus Agar (AFPA)	500 G
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