

PDA (Potato Dextrose Agar)



Medium used for the cultivation and enumeration of yeasts and molds from foods and other materials.

*Equally use with MFDS (MB-P1102K), KP (MB-P1102P), USP, EP and KFCC (MB-P1102C).

• CONTENTS (Liter)

Potato Infusion (infusion from 200g potatoes)	4.0 g
Dextrose	20.0 g
Agar	15.0 g
Final pH = 5.6 ± 0.2 at 25°C	

• PROCEDURE

Suspend 39.0 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. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes. If necessary, aseptically adjust the pH to 3.5 ± 0.1 by adding a sterile solution of Tartaric Acid (MB-T1103) or add 2 vials of Chloramphenicol supplement (MB-C1817).

Chloramphenicol supplement

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

Chloramphenicol	0.05 g
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• INTERPRETATION

PDA (Potato Dextrose Agar) is a medium used for the cultivation and enumeration of yeasts and molds from foods and other materials. Potato Infusion provides essential growth nutrients. Dextrose provides carbohydrate. Agar is solidifying agent. Adding tartaric acid makes the medium more selective. 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 22 -25°C for 5 - 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: slightly opalescent

Color: light amber

Incubation conditions: 22 - 25°C / 5 - 7 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus brasiliensis</i>	16404	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Saccharomyces cerevisiae</i>	76625	50-100	good

• 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.

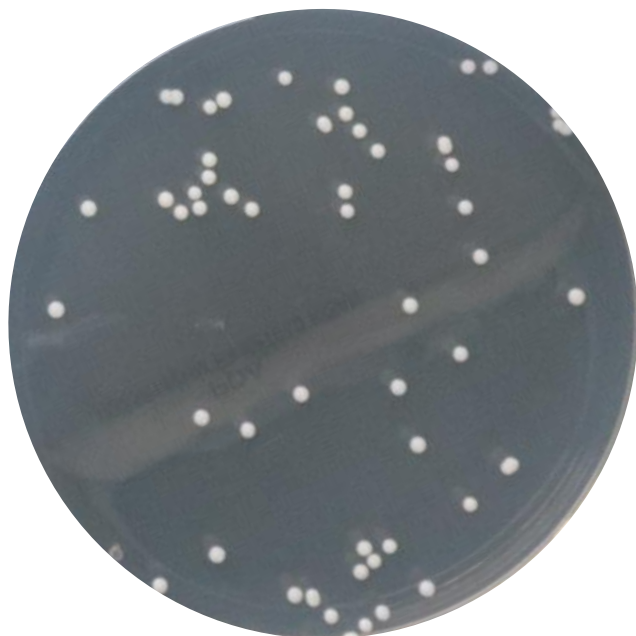
• REFERENCES

1. American Public Health Association (1992) Compendium of Methods for the Microbiological Examination of Foods 3rd Edition. APHA Inc. Washington DC.
2. FDA (1995) Bacteriological Analytical Manual, 8th ed. Revision A, 1998. Published by AOAC International.
3. J. MacFaddin, Media for the Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore (1985)
4. Refer to the MFDS, KP, USP, EP and KFCC.

• PACKAGE

Cat. No : MB-P1102 PDA (Potato Dextrose Agar)	500 G
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• MICROBIAL CULTURE IMAGES



Candida albicans ATCC 10231 (50 - 100CFU)



Saccharomyces cerevisiae ATCC 76625 (50 - 100CFU)

Incubation conditions : 22 - 25°C / 5 - 7 days