

# PDA (Potato Dextrose Agar)



Medium used for the cultivation and enumeration of yeasts and moulds from foods and dairy products.

\*Equally use with MFDS (MB-P1102K), QIA (MB-P1102Q), KP (MP-P1102P) and KFCC (MB-P1102C).

## • CONTENTS (Liter)

Potato Infusion	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. Dispense in petri dishes. If necessary adjust the pH to 3.5 ± 0.1 by adding a sterile solution of Tartaric Acid (MB-T1103).

## • INTERPRETATION

PDA (Potato Dextrose Agar) is a medium used used for the cultivation and enumeration of yeasts and moulds from foods and dairy products. Potato Infusion provides essential growth nutrients. Dextrose provides carbohydrate. Agar is solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. 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 with a slight precipitate.

Color: light amber.

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus niger</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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

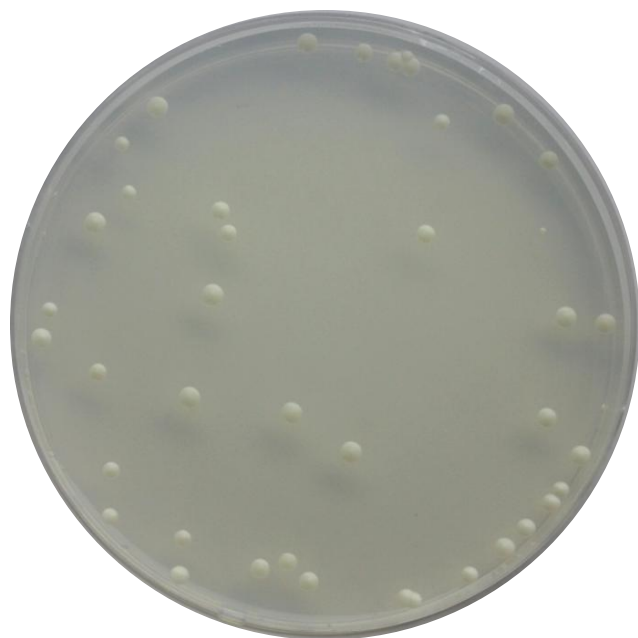
## • REFERENCES

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, QIA, KP and KFCC.

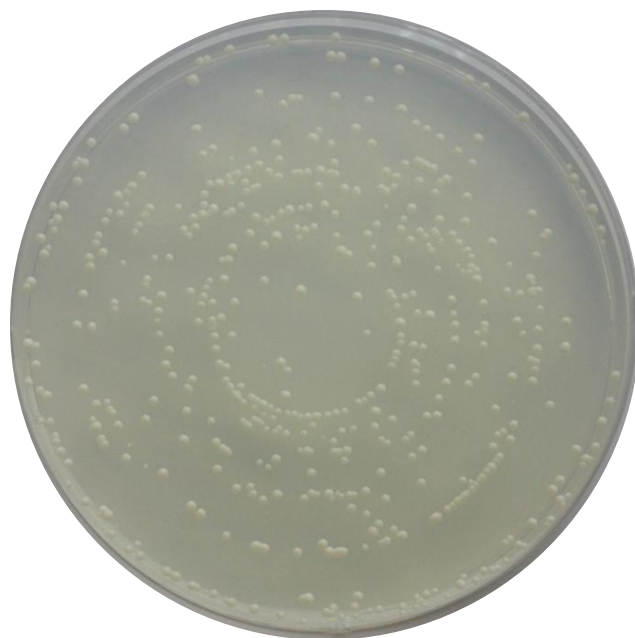
## • PACKAGE

Cat. No : MB-P1102 PDA (Potato Dextrose Agar)	500 G
--	-------

## • MICROBIAL CULTURE IMAGES



*Candida albicans* ATCC 10231 (100CFU)



*Saccharomyces cerevisiae* ATCC 76625 (300CFU)

Incubation conditions : 25±2°C 2-3days