PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD166 - POTATO DEXTROSE AGAR+YEAST EXTRACT+CHL.

Intended Use:
Potato Dextrose Agar (PDA) supplemented with yeast extract and chloramphenicol is primarily intended for the selective cultivation, isolation, and enumeration of yeasts and molds, especially from samples that may contain bacterial contaminants.

Principle and Uses:
Selective Isolation of Fungi:
The addition of chloramphenicol, a broad-spectrum antibiotic, suppresses a wide range of Gram-positive and Gram-negative bacteria, making the medium highly selective for fungi (yeasts and molds) in mixed or contaminated samples.
Cultivation from Clinical and Environmental Samples:
Employed to isolate and maintain fungal cultures recovered from clinical material, soil, plant tissues, and environmental surfaces, where bacterial contamination is a concern.
Fungal Stock Maintenance and Sporulation:
The medium, enriched with yeast extract and potato nutrients, supports robust growth, pigment production, and sporulation of many fungal species, including dermatophytes.
Potato Dextrose Agar (PDA) supplemented with **yeast extract** and **chloramphenicol** is based on the principle of providing a nutrient-rich medium for the optimal growth of yeasts and molds, while inhibiting bacterial contaminants. The potato infusion and dextrose create a carbohydrate- and nutrient-rich environment. Yeast extract further enriches the medium with amino acids, peptides, and vitamins essential for fungal development. Chloramphenicol, a broad-spectrum antibiotic, selectively suppresses the growth of Gram-positive and Gram-negative bacteria, thereby allowing fungi to flourish even in samples likely to carry substantial bacterial loads.

Composition
Potato Extract - 4.0 g/L*
Dextrose - 20.0 g/L
Agar - 15.0 g/L
Yeast Extract – 2.5 g/L
Chloramphenicol – 1 g/L
*(equivalent to 200g of Infusion from potatoes)

Storage: 2-8°C
Appearance: light amber, slightly opalescent
pH Range: 5.4 - 5.8

Package contents: 10 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal
After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results:
Streaking from fresh colony culture.

TEST	ATCC	Incubation Temp. (℃)	Incubation Cond.	Reaction 1	
Trichophyton rubrum	MYA 4438	20-25 ℃	Aerobic, up to 7 days	Growth	White mycelium
Penicillium notatum	10108	20-25 ℃	Aerobic, up to 7 days	Growth	
Aspergillus brasiliensis	16404	20-25 ℃	Aerobic, up to 7 days	Growth	
Candida albicans	10231	20-25 ℃	Aerobic, up to 7 days	Growth	
Escherichia coli	25922	20-25 ℃	Aerobic, up to 7 days	Partially inhibited	
Staphylococcus aureus	25923	20-25 ℃	Aerobic, up to 7 days	Inhibited	

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