savyonDIAGNOSTICS

Potato Dextrose Agar (PDA) supplemented with Chloramphenicol and Cycloheximide (actidion)
(Prepared tubes - Pkg. of 25)
Catalog No.: BS-360B

INTENDED USE:
PDA supplemented with Chloramphenicol and Cycloheximide (Actidione) is recommended for cultivating yeasts and pathogenic fungi, particularly those associated with skin infections, and aciduric microorganisms.

PRINCIPLES of the PROCEDURE:
This medium is a modification of the Dextrose Agar described by Sabouraud, with the addition of hloramphenicol and Cycloheximide. Chloramphenicol is an antibiotic which aids in isolating pathogenic fungi from heavily contaminated material, as it inhibits most contaminating bacteria. It is a recommended antibiotic for use with media due to its heat stability and wide bacterial spectrum. Cycloheximide is an antibiotic which inhibits saprophytic fungi but allows for the growth of pathogenic fungi: Cryptococcus neoformans, Aspergillus fumigatus and some species of Candida (albicans, krusei). Dextrose is the fermentable carbohydrate providing carbon and energy. Peptone mixture provides nitrogen, vitamins, minerals and amino acids essential for growth. Bacteriological agar is the solidifying agent. The high dextrose concentration and acidic pH make this medium selective for fungi.

Approximate Formula Per Liter:

Potato Extract	4.0 g
Dextrose	40.0 g
Peptone mixture	10.0 g
Bacteriological Agar	15.0 g
Cycloheximide	0.4 g
Chloramphenicol	0.5 g

Final pH: 5.6 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.
Appearance: Translucent white agar.

INSTRUCTIONS FOR USE:
For clinical diagnosis, the type of samples are all kinds of samples (hair, skin, nails, etc.). If the samples are formed by scrapes of skin, hair or nails, place the material in the center of the surface of the medium.

EXPECTED RESULTS: Incubation 3 to 7 days, 25°C, aerobically.

ORGANISM	ATCC	INOCULUM CFU	RECOVERY
Aspergillus niger	16404	10^5	Inhibition (partial to complete)
Candida albicans	10231	10^4	Growth
Trichophyton mentagrophytes	9533	Point inoculation	Growth
Escherichia coli	25922	10^5	Inhibition (partial to complete)

STORAGE:
PDA supplemented with Chloramphenicol and Cycloheximide should be protected from light and stored at 2°C to 8°C.

EXPIRATION:
The shelf life of the prepared products is limited to 6 months when stored at +2+8°C.

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