SABOURAUD CHLORAMPHENICOL CYCLOHEXIMIDE AGAR

INTENDED USE

Sabouraud chloramphenicol agar is used in the detection and isolation of yeasts and molds from foods. Chloramphenicol inhibits the growth of a large panel of Gram positive and negative bacteria. Cycloheximide inhibits the growth of saprophyte yeasts.

FORMULA

Ingredients in grams per liter of purified water

Casein peptone	5.00
Meat peptone	5.00
Dextrose	40.00
Chloramphenicol	0.50
Cycloheximide	0.50
Agar	15.00

Adjusted and/or supplemented as required to meet performance criteria.

STORAGE

Tubes and bottles: 2 - 8°C
Dehydrated media: 2 - 30 °C
The expiration date on the product label applies to the product in its intact packaging when stored as directed.

DIRECTIONS FOR PREPARATION

For dehydrated media

1. Dissolve 70 g in 1 L of purified water. Mix thoroughly.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave for 15 minutes at 115°C.

For bottle media

1. Heat the bottle at 95-100°C in water bath.
2. Mix well and cool to 45-47°C.
3. Poor in Petri plate and let solidified on a cool horizontal surface.

LIMITATION OF THE PROCEDURE

This product is for laboratory use only.
Avoid overheating a medium with an acidic pH, this may result in a soft medium.
It is recommended to make 2 plates (or tubes) of Sabouraud agar in parallel to detect all pathogen fungi in the sample. One serial will be incubated at 20-25°C and one at 30-37°C.
In case of slow growing strains, preferably used tubes instead of plates to avoid dehydration.

QUALITY CONTROL

Physical appearance: Medium is solid, light amber
Final pH: 5.6 ± 0.2 at 25°C

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Expected Cultural Response

Organism	Inoculum CFU	Incubation	Results
Aspergillus brasiliensis ATCC 16040 • WDCM 00053	> 10^2	2 - 5 days at 30°C	Inhibition
Candida albicans ATCC 10231 • WDCM 00054	10 - 10^2	2 – 5 days at 30°C	Growth
Escherichia coli ATCC 8739 • WDCM 00012	> 10^2	2 - 5 days at 30°C	Inhibition
Saccharomyces cerevisiae ATCC 9763	10 - 10^2	2 – 5 days at 30°C	Inhibition

This is an example of organisms routinely used for testing

REFERENCE

1. Sabouraud, R. 1910. Les Teignes. Masson ed. Paris. France.
2. Curry, A.S., J.G. Graf and G.N. McEwen, Jr. (ed). 1993. CTFA Microbiology Guidelines. The cosmetic, toiletry and fragrance association. Washington, D.C.
3. George, L.K., Ajello, L. and Papageorge, C. 1954. Use of Cycloheximide in the selective isolation of Fungi pathogenic to man. J. Lab. Clin. Med. 44:422-428.

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