

Sabouraud Dextrose Agar with Chloramphenicol (NCM0068)

Intended Use

Sabouraud Dextrose Agar W/ Chloramphenicol is used for the selective isolation of fungi in a laboratory setting. Sabouraud Dextrose Agar W/ Chloramphenicol is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Sabouraud Dextrose Agar (SDA) is a modification of Dextrose Agar described by Sabouraud. Sabouraud Dextrose Agar is used for cultivating pathogenic and commensal fungi and yeasts. The high dextrose concentration and acidic pH of the formula permits selectivity of fungi. This medium is beneficial in sporulation studies and pigment production. Sabouraud Dextrose Agar is used for determining the microbial content of cosmetics and in the mycological evaluation of food.

Sabouraud Dextrose Agar W/ Chloramphenicol is a modification of Sabouraud Dextrose Agar, with the addition of Chloramphenicol to increase selectivity against commensal microorganisms.

Typical Formulation

Enzymatic Digest of Casein	5.0 g/L
Enzymatic Digest of Animal Tissue	5.0 g/L
Dextrose	40.0 g/L
Chloramphenicol	0.05 g/L
Agar	15.0 g/L

Final pH: 5.6 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution

Refer to SDS

Preparation

1. Suspend 65 g of the medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing, and light beige.

Prepared Appearance: Prepared medium is clear to slightly hazy and light beige to amber.

Expected Cultural Response: Cultural response on Sabouraud Dextrose Agar W/ Chloramphenicol at 25 - 30°C and examined for growth after 2 - 7 days of incubation.

Microorganism	Approx Inoculum (CFU)	Expected Results
<i>Aspergillus niger</i> ATCC® 16404	Point Inoculation	Growth
<i>Candida albicans</i> ATCC® 10231	10 - 300	Growth
<i>Escherichia coli</i> ATCC® 25922	300 – 1000	Inhibited
<i>Microsporum canis</i> ATCC® 36299	Point Inoculation	Growth
<i>Trichophyton mentagrophytes</i> ATCC® 9533	Point Inoculation	Growth

The organisms listed are the minimum that should be used for quality control testing.

Technical Specification Sheet



Test Procedure

Consult appropriate references for recommended test procedures on the isolation and identification of yeast and molds.

Results

Yeasts grow creamy to white colonies. Molds will grow as filamentous colonies of various colors. Refer to appropriate references for a complete discussion on yeast and molds.

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure

1. Some strains may be encountered that grow poorly or fail to grow on this medium.
2. Antimicrobial agents incorporated into a medium to inhibit bacteria may also inhibit certain pathogenic fungi.
3. This medium is sensitive to over-heating, due to the low pH, and could cause agar to soften.

Storage

Store sealed bottle containing the dehydrated medium at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. Sabouraud, R. 1892. Ann. Dermatol. Syphilol. 3:1061.
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3. Curry, A. S., J. G. Graf, and G. N. McEwen, Jr. (eds.). 1993. CTFA Microbiology Guidelines. The Cosmetic, Toiletry, and Fragrance Association, Washington, D.C.
4. Marshall, R. T. (ed.). 2004. Standard methods for the microbiological examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.
5. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalmanualBAM/default.htm.

