

Sabouraud Dextrose Chloramphenicol Agar Slant**(M830)**

Recommended for the selective cultivation of yeasts and moulds from clinical and non-clinical samples.

Composition

Ingredients	g/ L
Dextrose	40.00
Peptone	5.00
Tryptone	5.00
Chloramphenicol	0.050
Agar.....	15.00

Description

Sabouraud Dextrose Chloramphenicol Agar recommended for cultivation of yeasts and moulds.

This medium was described originally by Sabouraud for the cultivation of fungi, particularly useful for the fungi associated with skin infections. The medium is often used with antibiotics such as Chloramphenicol for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria.

Tryptone and peptone provide nitrogenous and carbonaceous compounds, long chain amino acids, and other essential growth nutrients. Dextrose provides an energy source. Chloramphenicol inhibits a wide range of Gram-positive and Gram-negative bacteria which makes the medium selective for fungi. The low pH favors fungal growth and inhibits contaminating bacteria from clinical specimens.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines. After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. For professional use only. Follow good microbiological lab practices while handling specimens and culture.

Limitations

1. Individual organisms differ in their growth requirement and may show variable growth patterns.
2. Each lot of the medium has been tested for the organisms specified on the COA.
3. The surface of the medium should be dry when inoculated.
4. Certain pathogenic fungi may show poor growth on this medium.
5. Presence of chloramphenicol may inhibit certain pathogenic fungi.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality control**Physical/Chemical control**

Color : Light amber pH: 5.40-5.80

Cultural Response

Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours.

Microbiological activity

Organisms	Inoculum CFU/ml	Growth
Candida albicans ATCC 10231	50-100	Good growth, white colonies, 24-48hrs incubation at 35°C
Aspergillus brasiliensis ATCC 16404	50-100	Good growth, White mycelium, black spores, 5 days incubation at 25°C
Escherichia coli ATCC 25922	$=10^3$	inhibited
Staphylococcus aureus ATCC 25923	$=10^3$	inhibited

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
3. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Lipps WC, Braun-Howland EB, Baxter TE, eds. Standard methods for the Examination of Water and Wastewater, 24th ed. Washington DC: APHA Press; 2023