SABOURAUD CHLORAMPHENICOL DEXTROSE AGAR

AGSC-00P-500

- **Principle**

Sabouraud Chloramphenicol Dextrose Agar is a selective medium that can be used for the cultivation of yeast, moulds (as pathogenic fungi, particularly those associated with skin infections) and aciduric microorganisms. This medium is also used for determining the microbial and fungal content of cosmetics and for the mycological evaluation of food.

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.

This medium is a modification of the Dextrose Agar described by Sabouraud, with the addition of Chloramphenicol, which inhibits the great majority of bacterial contaminants. 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.

- **Regulatory compliance**

This product is manufactured under a quality management system in accordance with ISO 9001 and ISO 13485, and its formulation and quality control comply with applicable international standards, such as ISO 11133, where relevant.

- **Composition**

Ingredients	**g/L**
Bacteriological agar	15.00
Chloramphenicol	0.50
Dextrose	40.00
Peptone mixture	10.00

- **Preparation**

Suspend 65.5 grams of the medium in one litre of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Distribute into proper containers and sterilize in autoclave at 118-121 °C for 15 minutes. AVOID OVEARHEATING as it facilitates the hydrolysis of the components and the medium remains soft.

- **Applications and use**

For clinical diagnosis, the type of samples is all kind of samples (hair, skin, nails, etc).

If the samples are formed by scrapes of skin, hair or nails, place the material in the centre of the surface of the medium.

- Spread a plate with loop or swab. - Incubate in aerobic conditions at 30±2 °C for 18-48 hours and until 7 days if necessary.

- Reading and interpretation of results.

For other uses not covered by the CE marking: Inoculate sample and incubate at 30 °C and observe after 3-7 days if necessary.

- **Quality control**

Solubility	w/o rests
Appearance	Fine powder
Colour of the dehydrated medium	Beige
Colour of the prepared medium	Amber, slightly opalescent
Final pH (25 °C)	5.6 ± 0.2

- **Microbiological test**

Incubation conditions: 25±1 °C / 5 days.

Inoculation conditions: Productivity quantitative (100±20. Min. 50 CFU).

Reference media: Media batch SDA already validated.

Rest of strains: Incubation conditions: 30 °C / 3-7 days.

Microorganisms	ATCC	Specification
Aspergillus brasiliensis	16404	Good growth >70%
Candida albicans	2091	Good growth
Escherichia coli	25922	Inhibited growth
Staphylococcus aureus	25923	Inhibited growth
Candida tropicalis	750	Good growth
Saccharomyces cerevisiae	9763	Good growth >70%

- **Storage**

The product is highly hygroscopic; keep the container always closed and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Temp. Min.:2 °C Temp. Max.:25 °C.

Note: Sterilize media immediately after reconstitution.

- **Bibliography**

Sabouraud R. 1892. Ann. Dermatol. Syphilol. 3:1061.

Jarett, L., and A.C. Sonnenwirth (ed) 1980. Gradwohl's clinical laboratory methods and diagnosis, 8th ed. CV Mosby.

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.

- **Product use limitation**

This product is developed, designed and supplied exclusively for research use only. It is not intended for diagnostic applications or drug development, and it is not suitable for administration to humans or animals.