

Sabouraud Chloramphenicol Dextrose Agar

For the selective cultivation and isolation of yeasts and molds.

Practical information

Categories		· · · ·
Yeasts and molds		
	C E IVD	
		Yeasts and molds

Principles and uses

Sabouraud Chloramphenicol Dextrose Agar is a selective medium that can be used for the cultivation of yeast, molds (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.

Formula in g/L

Bacteriological agar 1	5 Chloramphenicol	0,5
Dextrose 4		10

Preparation

Suspend 65,5 grams of the medium in one liter 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.

Instructions for use

» For clinical diagnosis, the type of samples are 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 center 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 ans until 7 days if neccesary.

- 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.

Cat. 1090

Quality control

Solubility	Appareance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25ºC)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	5,6±0,2

Microbiological test

Incubation conditions: $(25\pm1$ °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

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

Storage

Temp. Min.:2 °C Temp. Max.:25 °C

Bibliography

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

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