

Sabouraud Agar Chloramphenicol Medium(SABC)

Catalog : HB0235-131

Sabouraud Agar Chloramphenicol Medium(SABC) is used for the counting of yeast and mold.

Approximate Formula:

Ingredients	gm./liter
Peptic Digest of Animal Tissue	5.0
Pancreatic Digest of Casein	5.0
Dextrose	40.0
Agar	15.0
Chloramphenicol	0.1
Final pH 5.6±0.2 at 25 °C	

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

Directions:

Suspend 65.1g of the medium in one liter of distilled water or deionized water. Mix well and heat with frequent agitation to completely dissolve the powder. Sterilize in an autoclave at 121°C for 15 minutes. When cooling to 50- 55°C , pour into petri dishes.

Principle and Interpretation:

Peptic digest of animal tissue and pancreatic digest of casein are sources of nitrogenous growth factors. Dextrose provides an energy source. High dextrose concentration and low pH favors fungal growth and inhibits contaminating bacteria from clinical specimens. Chloramphenicol is inhibitory to a wide range of gram-negative and gram-positive bacteria. Agar is the solidifying reagent.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of yellowish transparent gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Sabouraud Agar Chloramphenicol Medium(SABC) must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 20-25°C for 48-72 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
<i>Aspergillus Niger</i>	ATCC 16404	20-200	Luxuriant	≥70%	White hypha
<i>Candida Albicans</i>	ATCC 10231	20-200	Luxuriant	≥70%	Cream colonies
<i>Escherichia coli</i>	ATCC 25922	>10 ³	Inhibited	/	/
<i>Staphylococcus aureus</i>	ATCC 6538	>10 ³	Inhibited	/	/

References:

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicines and Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex 1, France.