

89579 Sabouraud Glucose Agar with Chloramphenicol

For the selective cultivation, isolation and identification of fungi and yeasts.

Composition:

Ingredients	Grams/Litre
Casein peptone	5.0
Peptic digest of animal tissue	5.0
Dextrose	40.0
Chloramphenicol	0.05
Agar	15.0
Final pH 5.6 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Appearance: Light yellow coloured, homogeneous, free flowing powder.
 Colour and Clarity: Light amber coloured, clear to slightly opalescent gel forms in Petri plates.

Directions:

Suspend 65 g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilise by autoclaving at 121°C for 15 minutes.

Principle and Interpretation:

Casein peptone and peptic digest of animal tissue act as a source of carbon, nitrogen and other essential growth nutrients. Dextrose (D(+)-Glucose) is the fermentable carbohydrate. The relatively high carbohydrate concentration of 4 % enhances fungal growth. The pH of 5.6 and the high dextrose concentration inhibits bacterial growth. The inhibition can be enhanced by adjusting the pH to extreme values (approx. 3.5 or 10.0). Chloramphenicol is used as a strong inhibitor, used for heavily contaminated material.

For the differentiation of *Candida albicans* 100 mg/l triphenyltetrazolium chloride (93140) can be added (8).

Cultural characteristics after 48-72 hours at 30°C

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	+++
<i>Trichophyton rubrum</i> (28191)	+++
<i>Saccharomyces cerevisiae</i> (9763)	+++
<i>Candida albicans</i> (10231)	+++
<i>Escherichia coli</i> (25922)	-
<i>Lactobacillus casei</i> (9595)	-



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Precautions and Disclaimer

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