



Sabouraud Glucose Agar w/Antibiotics

M1472

Sabouraud Glucose agar w/ Antibiotics is recommended for selective cultivation of yeasts and moulds.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Peptic digest of animal tissue	5.000
Glucose	40.000
Agar	15.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 65 grams in 995 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically add rehydrated contents of 1 vial of Tetracycline Selective Supplement (FD196). Mix well and pour into sterile Petri plates.

Some pathogenic fungi may produce infective spores, which are easily dispersed in air, so examination should be carried out in safety cabinet.

Principle And Interpretation

Sabouraud Glucose Agar w/Antibiotics is used for selective cultivation of yeasts and moulds Sabouraud Dextrose Agar is Carliers modification (1) of the formulation described by Sabouraud (2) for the cultivation of fungi. Sabouraud Glucose Agar w/ Antibiotics is a modification of Sabouraud Dextrose Agar formulated by Sabouraud (2). The medium is used with Tetracycline for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria.

Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous compounds. Glucose provides an energy source. Tetracycline inhibits a wide large of gram positive and gram negative bacteria making the medium selective for fungi. The low pH favors fungal growth and inhibits contaminating bacteria from clinical specimen.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH

5.40-5.80

Cultural Response

M1472: Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours with added tetracycline supplement (Incubate for 7 days for Trichophyton species).

Organism	Inoculum (CFU)	Growth	Recovery
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Cultural Response

* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant	
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<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant	$\geq 50\%$
<i>Escherichia coli</i> ATCC 25922	$\geq 10^3$	inhibited	0%
<i>Lactobacillus casei</i> ATCC 334	$\geq 10^3$	inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant	$\geq 50\%$
<i>Trichophyton rubrum</i> ATCC 28191	50-100	good-luxuriant	
<i>Escherichia coli</i> ATCC 8739	$\geq 10^3$	inhibited	0%
<i>Escherichia coli</i> NCTC 9002	$\geq 10^3$	inhibited	0%

*Key: Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Carlier G.I.M 1948, Brit J. Derm Syph. 60 61.
2. Sabouraud K 1892, Ann Dermatol. Syphilol, 3 : 1061.

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