

CM 21549 - SABOURAUD GLUCOSE AGAR W/ANTIBIOTICS

INTENDED USE

For selective cultivation of yeasts and moulds.

PRODUCT SUMMARY AND EXPLANATION

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

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	5.000
Peptic digest of animal tissue	5.000
Glucose	40.000
Agar	15.000

PRINCIPLE

Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous compounds. Glucose provides an energy source. Tetracycline inhibits a wide range 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.

INSTRUCTION FOR USE

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

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

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder : Cream to yellow homogeneous free flowing powder.
- Appearance of prepared medium : Light amber coloured clear to slightly opalescent gel forms in Petri plates.
- pH (at 25°C) : 5.6±0.2

INTERPRETATION

Cultural characteristics observed after an incubation with added tetracycline supplement.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
---------------	------	-------------------	--------	----------	------------------------	-------------------



Aspergillus brasiliensis	16404	10-100	Good-luxuriant	>=50%	20-25°C	48-72 Hours
Candida albicans	10231	10-100	Good-luxuriant	>=50%	20-25°C	48-72 Hours
Escherichia coli	25922	>=10 ³	Inhibited	0%	20-25°C	48-72 Hours
Lactobacillus casei	334	>=10 ³	Inhibited	0%	20-25°C	48-72 Hours
Saccharomyces cerevisiae	9763	10-100	Good-luxuriant	>=50%	20-25°C	48-72 Hours
Trichophyton rubrum	28191	10-100	Good-luxuriant	>=50%	20-25°C	7 days
Escherichia coli	8739	>=10 ³	Inhibited	0%	20-25°C	48-72 Hours
Escherichia coli	9002	>=10 ³	Inhibited	0%	20-25°C	48-72 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Carlier G.I. M1948, Brit J. Derm Syph. 60 61.

