

CM 21540 - SABOURAUD DEXTROSE AGAR W/ 3.0% AGAR

INTENDED USE

For cultivation of yeasts, moulds and aciduric microorganisms. (withstands longer autoclaving upto 30 minutes.)

PRODUCT SUMMARY AND EXPLANATION

This medium with 3.0% agar is a modification of regular Sabouraud agar differing in concentration of agar. It can withstand longer autoclaving time upto 30 minutes. Sabouraud Dextrose Agar formulation described by Sabouraud and Sabouraud Dextrose Agar w/3.0% agar is used for the cultivation of fungi (yeasts, moulds) and aciduric microorganisms.

COMPOSITION

Ingredients	Gms / Ltr
Mycological peptone	10.000
Dextrose (Glucose)	40.000
Agar	30.00

PRINCIPLE

Mycological peptone provides nitrogenous compounds. Dextrose provides an energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

INSTRUCTION FOR USE

- Dissolve 80 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder : Cream to yellow coloured homogeneous free flowing powder.
- Appearance of prepared medium : Light smber 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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus brasiliensis	16404	10-100	Luxuriant	≥70%	30°C	48 - 72 Hours



Candida albicans	10231	10-100	Luxuriant	$\geq 70\%$	30°C	48 - 72 Hours
Escherichia coli	25922	50-100	Luxuriant (inhibited on media with lower pH)	$\geq 70\%$	30°C	48 - 72 Hours
Lactobacillus casei	9595	50-100	Luxuriant	$\geq 70\%$	30°C	48 - 72 Hours
Saccharomyces cerevisiae	9763	10-100	Luxuriant	$\geq 70\%$	30°C	48 - 72 Hours
Trichophyton rubrum	28191	10-100	Luxuriant	$\geq 70\%$	30°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. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
3. Murray PR, Baron EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover RH (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.
4. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
5. Salfinger Y., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

