

TM 587 - SABOURAUD AGAR W/ ANTIBIOTICS (SABOURAUD CYCLOHEXIMIDE CHLORAMPHENICOL AGAR)

INTENDED USE

For selective isolation and cultivation of pathogenic fungi.

PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar was originally formulated by Sabouraud and further modified by Emmons by reducing dextrose content and adjusting the pH close to neutral.

This medium inhibits fungi like *Cryptococcus neoformans*, *Aspergillus*, *Nocardia*, certain *Candida* species but allow the dermatophytes to grow well.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Dextrose (Glucose)	20.000
Chloramphenicol	50mg
Cycloheximide	500mg
Agar	15.000

PRINCIPLE

Peptone is the source of nitrogenous growth factors while dextrose provides an energy source for the growth of microorganisms. Chloramphenicol and Cycloheximide inhibits some bacteria as well as some saprophytic and pathogenic fungi.

INSTRUCTION FOR USE

- Dissolve 45.54 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.
- Mix well and pour into sterile Petri plates.

Caution: Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.

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)	: 6.8±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	None-poor	0-10%	25-30°C	2-3 weeks
<i>Candida albicans</i>	10231	10-100	Poor-fair	10-30%	25-30°C	2-3 weeks
<i>Escherichia coli</i>	25922	$\geq 10^3$	Inhibited	0%	25-30°C	2-3 weeks
<i>Saccharomyces cerevisiae</i>	9763	10-100	None-poor	0-10%	25-30°C	2-3 weeks
<i>Trichophyton mentagrophytes</i>	9533	10-100	Luxuriant	$\geq 70\%$	25-30°C	2-3 weeks
<i>Trichophyton rubrum</i>	28191	10-100	Luxuriant	$\geq 70\%$	25-30°C	2-3 weeks

PACKAGING:

In pack size of 100 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

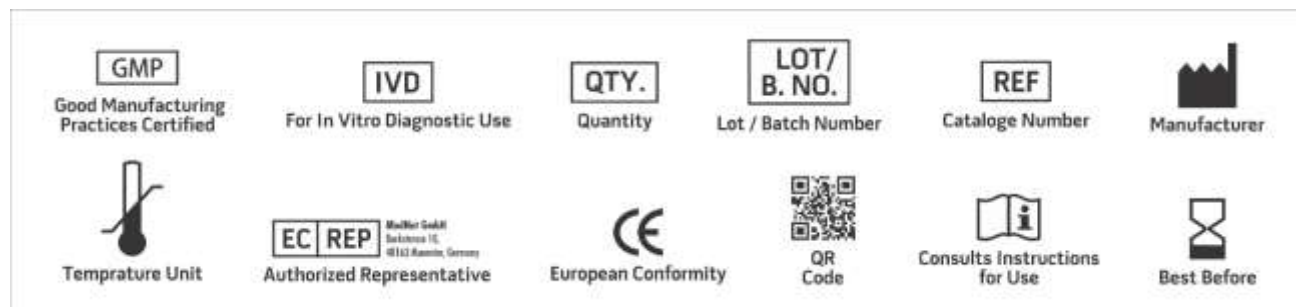
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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2. Diagnostic Procedures, 1963, 4th ed., APHA
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4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition
5. 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.



6. MacFaddin J. F., 1985, Media for Isolation-Cultivation Identification - Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.
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NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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