

TM 849 - SABOURAUD DEXTROSE MALTOS E AGAR

INTENDED USE

For cultivation of yeasts and molds and for testing antimycotic substances.

PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar is Carliers modifications of the formulation described by Sabouraud for the cultivation of fungi, particularly those associated with skin infections. Sabouraud Dextrose Maltose Agar is used for the cultivation of yeast, moulds and other aciduric organisms.

The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms. For isolation of fungi from contaminated specimens, a selective medium should be inoculated simultaneously. Incubate cultures for 4 to 6 weeks before reporting as negative.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	5.000
Peptic digest of animal tissue	5.000
Dextrose	10.000
Maltose	10.000
Agar	15.000

PRINCIPLE

Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi. Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose and maltose provide an energy source for the growth of microorganisms. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

INSTRUCTION FOR USE

- Dissolve 45.0 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, do not overheat.
- Mix well and pour in sterile Petri plates.

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)	: 5.4±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
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<i>Aspergillus brasiliensis</i>	16404	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Candida albicans</i>	10231	10-100	Good- luxuriant (inhibited on media with Low pH)	>=50%	25-30°C	Upto 5 days
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Lactobacillus casei</i>	9595	50-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Saccharomyces cerevisiae</i>	9763	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Trichophyton rubrum</i>	28191	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Penicillium notatum</i>	10108	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Trichophyton gallinae</i>	22243	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Trichophyton mentagrophytes</i>	9533	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days
<i>Trichophyton ajelloi</i>	24885	10-100	Good-luxuriant	>=50%	25-30°C	Upto 5 days

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.



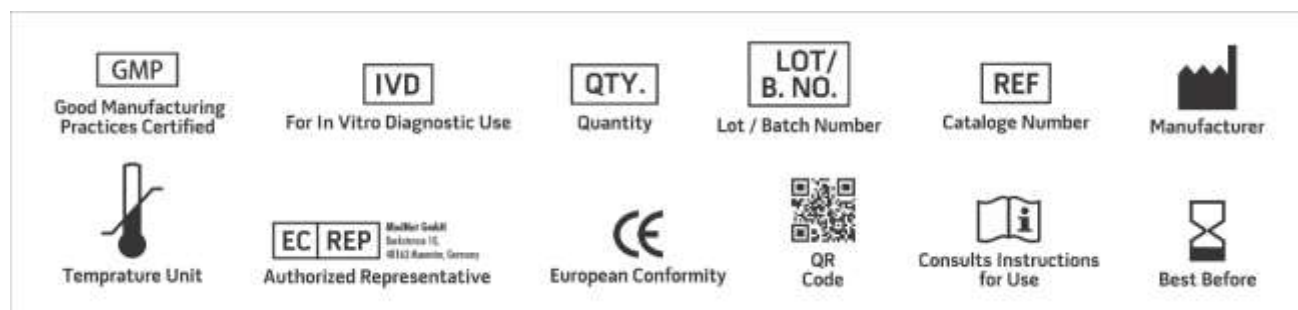
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Carlier G. I. M., 1984, Brit. J. Derm. Syph., 60:61
2. Sabouraud R., 1892, Ann. Dermatol. Syphil. 3: 1061.
3. Merkblatt 18: Verpackgs- Rdsch, 1974, 25/1: Techn- Wiss. Beilage, 5-8
4. Merkblatt 19: Verpackgs- Rdsch, 1974, 25/6: Techn- Wiss. Beilage, 569-575
5. Merkblatt 21: Verpackgs- Rdsch, 1974, 25/7: Techn- Wiss. Beilage, 53-55
6. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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