

TM 1895 - SABOURAUD DEXTROSE AGAR (as per IP 2010)

INTENDED USE

For the cultivation of yeasts, moulds and aciduric bacteria in accordance with Indian Pharmacopoeia, 2010.

PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar is Carliers modification of the formulation described by Sabouraud for the cultivation of fungi (yeasts, moulds), particularly useful for the fungi associated with skin infections. The composition of medium is as per I.P. This medium is employed for microbial limit tests of food, pharmaceutical, cosmetics, and clinical specimens. Some pathogenic fungi may produce infective spores, which are easily dispersed in air, so examination should be carried out safety cabinet. For heavily contaminated samples, the plate must be supplemented with inhibitory agents for inhibiting bacterial growth.

COMPOSITION

Ingredients	Gms / Ltr
Peptones (meat and casein)	10.000
Dextrose monohydrate	40.000
Agar	15.000

PRINCIPLE

Peptones (meat and casein) provides nitrogenous compounds. Dextrose monohydrate provides energy source. High dextrose concentration and low pH favors fungal growth and inhibits contaminating bacteria from clinical specimens.

INSTRUCTION FOR USE

- Suspend 65.00 grams in 1000 ml purified/ distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes or as per validated cycle.

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

Colonies are comparable in appearance and indication reaction to those previously obtained with previously tested and approved lot of medium occurs for the specified temperature for a period of time within the range specified inoculating <=100cfu.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Candida albicans</i>	10231	10 -100	Luxuriant (white colonies)	>=70 %	30-35°C	24 - 48 Hours



<i>Candida albicans</i>	10231	10 -100	Luxuriant	>=70 %	20 -25 °C	<=5 Days
<i>Aspergillus brasiliensis</i>	16404	10 -100	Luxuriant	>=70 %	20 -25 °C	<=5 Days
<i>Candida albicans</i>	2091	10 -100	Luxuriant	>=70 %	30-35°C	24 - 48 Hours
<i>Saccharomyces cerevisiae</i>	9763	10 -100	Luxuriant	>=70 %	30-35°C	24 - 48 Hours
<i>Escherichia coli</i>	25922	50 -100	Good(inhibited on media with low pH)	40-50%	30-35°C	24 - 48 Hours
<i>Escherichia coli</i>	8739	50 -100	Good(inhibited on media with low pH)	40-50%	30-35°C	24 - 48 Hours
<i>Escherichia coli</i>	9002	50 -100	Good(inhibited on media with low pH)	40-50%	30-35°C	24 - 48 Hours
<i>Trichophyton rubrum</i>	28191	10 -100	Good	40-50%	20 -25 °C	<=7 Days
<i>Lactobacillus casei</i>	334	50 -100	Luxuriant	>=70 %	30-35°C	24 - 48 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.

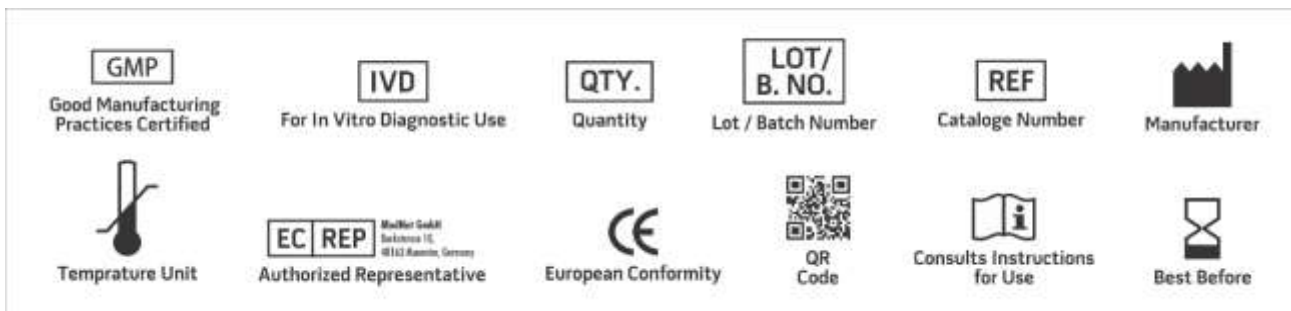
DISPOSAL



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

REFERENCES

1. Carlier G. I. M., 1948, Brit. J. Derm. Syph., 60:61.
2. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
3. Indian Pharmacopoeia, 2010, Ministry of Health and Family Welfare, Govt. of India.
4. Bacteriological Analytical Manual, 8th Edition, Revision A, 1998. AOAC, Washington D.C.
5. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover MC (editors) 2003, Manual of Clinical Microbiology, 8th ed., ASM, 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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