

TM 090 - SABOURAUD DEXTROSE AGAR BASE, MODIFIED (DEXTROSE AGAR BASE, EMMONS)

INTENDED USE

For selective cultivation of pathogenic fungi.

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 Agar Base, Modified is the modification of Sabouraud medium as described by Emmons. It has reduced dextrose content and a neutral pH. Though the low pH of this medium is favorable for the growth of fungi especially dermatophytes, some fungi are inhibited. Emmons modified the original formulation by adjusting the pH close to neutral to increase the recovery of fungi and by reducing the dextrose content from 40 to 20 g/l.

COMPOSITION

Ingredients	Gms / Ltr
Dextrose (Glucose)	20.000
Peptone, special	10.000
Agar	17.000

PRINCIPLE

Peptone special is the source of nitrogenous growth factors. Dextrose provides as an energy source. The addition of antibiotics increases the selectivity of the medium.

INSTRUCTION FOR USE

- Dissolve 23.5 grams in 500 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 and aseptically add the rehydrated contents of 1 vial of CC Supplement.
- Mix well before pouring in sterile Petri plates.

Note: Avoid undue exposure to heat which encourages hydrolysis of components.

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)	: 7.0±0.2

INTERPRETATION

Cultural characteristics observed with added CC Supplement, Modified 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	None - poor	0-10%	25-30°C	2-3 weeks
<i>Candida albicans</i>	10231	10-100	None - poor	0-10%	25-30°C	2-3 weeks
<i>Escherichia coli</i>	25922	$\geq 10^4$	Inhibited	0%	25-30°C	2-3 weeks
<i>Saccharomyces cerevisiae</i>	9763	50-100	None - poor	0-10%	25-30°C	2-3 weeks
<i>Trichophyton rubrum</i>	28191	50-100	Luxuriant	$\geq 70\%$	25-30°C	2-3 weeks
<i>Trichophyton mentagrophytes</i>	9533	50-100	Luxuriant	$\geq 70\%$	25-30°C	2-3 weeks

PACKAGING:

In pack size of 100 gm and 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

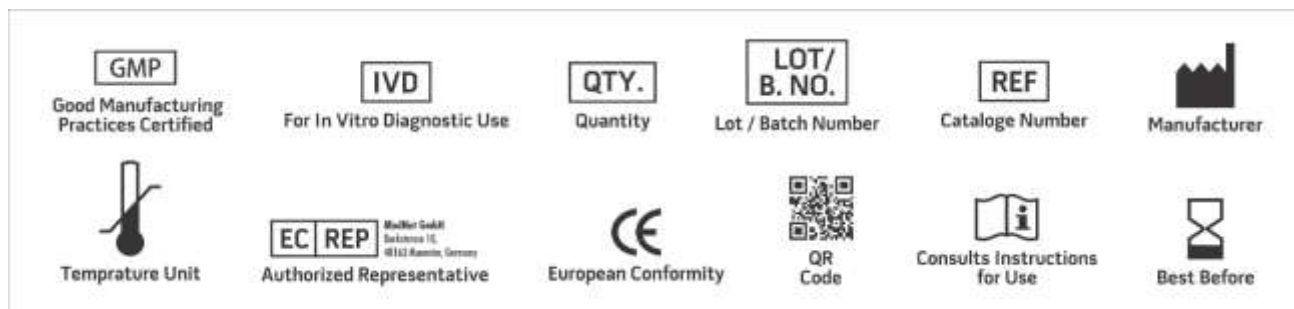
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition
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7. 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**
Revision: 08 Nov., 2019