

TMV 090 – DEXTROSE AGAR BASE, EMMONS (SABOURAUD DEXTROSE AGAR BASE, MODIFIED) (VEG.)

INTENDED USE

For selective cultivation of pathogenic fungi.

PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar Base, Modified (Veg) is prepared by using Veg special peptone in place of Peptone special which makes the medium free of BSE/TSE risks. Sabouraud Dextrose Agar was devised by Sabouraud for the cultivation of dermatophytes. 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. Sabouraud Dextrose Agar Base, Modified (Veg) is the modification of this medium using vegetable peptone instead of animal based peptone.

COMPOSITION

Ingredients	Gms / Ltr
Veg special peptone	10.000
Dextrose	20.000
Agar	17.000

PRINCIPLE

The medium consists of Veg special peptone which is the source of nitrogenous growth factors. Dextrose serves as an energy source. The addition of antibiotics increases the selectivity of the medium. Chloramphenicol is inhibitory to a wide range of gram negative and gram positive bacteria, and cycloheximide is an antifungal agent that is active against saprophytic fungi and does not inhibit yeast or dermatophytes.

INSTRUCTION FOR USE

- Dissolve 47 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15psi pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of one vial of CC Supplement.
- Mix well and pour into sterile petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Yellow coloured, clear to slightly opalescent gel forms in petri plates.
pH (at 25°C)	: 7.0 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation with addition of CC Supplement.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Aspergillus niger</i>	16404	10-100	None - poor	0-10%	25-30 °C	2-3 Weeks
<i>Candida albicans</i>	10231	10-100	Poor - good	10-40%	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	0-20%	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 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

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. Ajello, George, Kaplan and Kaufman, 1963. CDC laboratory manual for medical mycology. PNS Publication No.994 U.S Government Printing office, Washington, D.C .
3. Patrick R.Murray, Baron, Pfaller, and Tenover, Tenover (Ed) 2003, In Manual of Clinical Microbiology, 8th ASM, Washington, D.C.
4. Kwong_Chung and Bennett.1992. Medical mycology. Lea and Feriger, Philadelphia, Pa.
5. Lorian (ed.) 1996. Antibiotics in laboratory medicine, 4th ed. Williams and Wilkins, Baltimore, MD.



 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Barkstrasse 10, 49163 Moersdorf, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

***For Lab Use Only**
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