

TM 1089 - SOYA PEPTONE YEAST EXTRACT AGAR

INTENDED USE

For selective isolation of dermatophytes especially Trichophyton verrucosum and other pathogenic fungi.

PRODUCT SUMMARY AND EXPLANATION

Dermatophytes are a group of parasitic fungi requiring keratin for growth. They have an ability to infect and survive on the top layer of skin, having dead cells thereby causing superficial infection of skin, hair and nails.

Dermatophytes include *Epidermophyton*, *Microsporum* and *Trichophyton*. The organisms colonize the keratin tissues and inflammation is caused by host response to metabolic byproducts. McDonough and Georg et al recommended addition of antibiotics, chloramphenicol and streptomycin to inhibit bacterial growth and assist primary isolation of dermatophytes and fungi.

COMPOSITION

Ingredients	Gms / Ltr		
Papaic digest of soyabean meal	10.000		
Yeast extract	5.000		
Dextrose	40.000		
Streptomycin	0.030		
Chloramphenicol	0.050		
Agar	17.000		

PRINCIPLE

The medium contains papaic digest of soyabean meal, yeast extract and dextrose, all of which provide essential nutrients for the fungal growth. Chloramphenicol and streptomycin have inhibitory action on bacteria. Temperature of incubation may affect the sensitivity of certain systemic pathogenic fungi to chloramphenicol.

INSTRUCTION FOR USE

- Dissolve 72.08 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 118°C for 15 minutes.
- Mix well and pour into 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) : 6.6±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism ATC	C Inoculum (CFU/ml) Growth	Recovery Incubation Temperature	Incubation Period
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Candida albicans	10231	10-100	Good- luxuriant	>=50%	25-30°C	48-72 Hours
Staphylococcus aureus	29213	>=10³	Inhibited	0%	25-30°C	48-72 Hours
Trichophyton verrucosum	36058	10-100	Good- luxuriant	-	25-30°C	48-72 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.

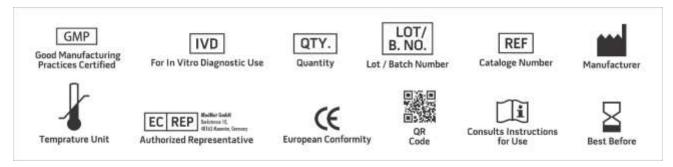
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

- 1. McDonough E. S., Ajello L., Georg L. K., Brinkman S., 1960, J. Lab and Clin. Med; 55: 116.
- 2. Georg L. K., Ajello L., Papageorge C., 1954, J. Lab and Clin. Med., 44: 422.
- 3. Cooke W. B., 1954, Antibiot. and Chemother, 4:657.
- 4. Robinson H. M., Cohen M. M., Robinson R. C. V. and Bereston E. S., 1956, J. Am. Med. Assoc; 160:537.
- 5. McDonough E. S., Ajello L., Georg L. K., Brinkman S., 1960, Mycopath. Mycolog. Appl., 13:113.



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

*For Lab Use Only
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