



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Sabouraud Maltose Agar

Product Code: DM 1062

Application: Sabouraud Maltose Agar is used as an excellent medium for the propagation of moulds and yeasts, particularly the parasitic fungi concerned with skin and scalp lesions.

Composition**

Ingredients	Gms / Litre
Maltose	40.000
Mycological, peptone	10.000
Agar	15.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Fungi can be grouped simply on the basis of morphology as either yeasts or moulds ⁽¹⁾. Sabouraud Maltose Agar was formulated by Sabouraud ⁽²⁾ and is used for the isolation and differentiation of yeast and moulds. ⁽³⁻⁵⁾

Mycological peptone provides nitrogen, vitamins, minerals, amino acids and growth factors. Maltose provides an energy source for the growth of microorganisms. 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 ⁽¹⁾. 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.

Methodology

Suspend 65 grams of powder media in 1000 ml distilled water. Shake well heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH Range:-

5.40-5.80

Cultural Response/Characteristics

DM 1062: Cultural characteristics observed after an incubation at 25 - 30°C for 48 - 72 hours.(Incubate Trichophyton species for upto 7 days)





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Organism	Inoculum (CFU)	Growth	Recovery
<i>Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant	
<i>Candida albicans</i> ATCC10231	50-100	good-luxuriant	>=70%
<i>Escherichia coli</i> ATCC25922	50-100	good-luxuriant(Inhibited on media with lower pH)	>=70%
<i>Lactobacillus casei</i> ATCC 9595	50-100	good-luxuriant	>=70%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant	>=70%
<i>Trichophyton rubrum</i> ATCC 28191	50-100	good-luxuriant	

Storage and Shelf Life-

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.
Prepared Media: 2-8^o in sealable plastic bags for 2-5 days.

Further Reading

1. Murray P. R., Baron J. H., Pfaller M. A., Tenover J. C. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
2. Sabouraud R., 1892, Ann. Dermatol. Syphil. 3 : 1061.
3. Davidson and Dowding, 1932, Arch. Dermatol. Syphilol. 26:660.
4. Davidson, Dowding and Buller. 1932. Can. J. Res. 6:1.
5. Frank L. S., 1932, Arch. Dermatol. Syphilol., 26: 457

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