



Special YM Medium

M1613

Special Yeast and Mould Medium is used for isolation and cultivation of yeasts and moulds.

Composition**

Ingredients	Gms / Litre
Malt extract	20.000
Peptic digest of animal tissue	1.000
Dextrose	20.000
Agar	20.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 61 grams in 1000 ml distilled water. Mix thoroughly. Heat to boiling with frequent agitation to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For improved selectivity, aseptically add 40 mg streptomycin and/or 35 mg chlortetracycline and mix well. If desired, adjust pH by aseptically adding 1N HCl or 1N NaOH.

Principle And Interpretation

The three basic structural types of fungi are moulds, yeasts and fleshy fungi (1). These organisms grow on simple nutritive media with an acidic pH. The acidic pH restricts the growth of bacteria.

ACGIH recommended Special YM Medium for the detection and enumeration of fungi (2) with added antibiotics. This medium can also be used for collecting airborne microorganisms (3). Meat extract and peptone provide the required nutrients in the medium. Dextrose is the carbon source. This medium can also be made selective by the addition of antimicrobials.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

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

Reaction

Reaction of 6.1% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH

5.40-5.80

Cultural Response

M1613: Cultural characteristics observed after an incubation at 28-32°C for 48-72 hours (Trichophyton mentagrophytes incubated at 30±2°C for upto 7days).

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Aspergillus niger</i> ATCC 16404	50-100	good
<i>Candida albicans</i> ATCC 26790	50-100	good
<i>Enterococcus faecalis</i> ATCC 29212	≥10 ³	inhibition (on addition of antibacterial agents)
<i>Escherichia coli</i> ATCC 25922	≥10 ³	inhibition (on addition of

<i>Trichophyton</i>	50-100	antibacterial agents)
<i>mentagrophytes ATCC 9533</i>		poor to fair

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1. Norton C. F., Microbiology, 2nd Edi, Addison-Wesley Publishing Company.
2. Morey P., Otten J., Burge H., Chatigny M. , Feeley J., LaForce F. M. and Peterson K., 1986, Applied Industrial Hygiene 1:R-19.
3. Guide regarding condition and attendance of houses, 1990, Finnish Medical Board, Helsinki, Finland.

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