



For detection, isolation and enumeration of yeasts and molds

Composition

Ingredients	Gms/Ltr.
Malt extract	30.00
Agar	15.00
Mycological peptone	5.00

* Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight.

Instructions for Use

Dissolve 50gms in 1000ml of distilled water. Gently heat to boiling with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 15 psi (121°C) for 10 minutes. **Avoid overheating**, as it will result in a softer and darker agar. If desired, to adjust acidic pH use 10% Lactic Acid Solution 10% (TS 049).

Appearance: Amber colour, slightly opalescent gel
pH (at 25°C): 5.4 ± 0.2

Principle

MALT EXTRACT AGAR W/ MYCOLOGICAL PEPTONE is used for detection, isolation and enumeration of yeasts and molds. This medium is also used for maintaining stock cultures of fungi. Medium contains Mycological peptone which provides carbon and nitrogen sources required for the growth of organism. Agar is a solidifying agent. Malt extract provides the nutrients and helps in metabolism of yeasts and molds. The acidic pH of Malt agar allows for optimal growth of molds and yeasts while restricting bacterial growth.

Interpretation

Cultural characteristics observed after inoculating (10³CFU/ml), on incubation at 25 - 30°C for 48 - 72 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth	Appearance of colony
<i>Aspergillus brasiliensis</i>	16404	Point inoculation	Luxuriant	Wooly and black mycelium
<i>Candida albicans</i>	10231	10 ³	Luxuriant	Off - white creamy
<i>Saccharomyces cerevisiae</i>	9763	10 ³	Luxuriant	Off - white creamy

References

1. Reddish, Abstr. Bacteriol., 3 : 6. (1919).
2. Downes F. P. and Ito K., (Eds.), Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.(2001).
3. Williams, (Ed.), Official Methods of Analysis of the Association of Official Analytical Chemists, 19th Ed., AOAC, Washington, D.C.(2005).