



## Malt Yeast Agar

M1967

Malt Yeast Agar is recommended for the cultivation and maintenance of yeast and moulds.

### Composition\*\*

Ingredients	Gms / Litre
Malt extract	3.000
Yeast extract	3.000
Peptone	5.000
Glucose	10.000
Agar	20.000
Final pH ( at 25°C)	6.2±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 41 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Media based on malt extract may be considered as general growth substrates due to their richness and nutrient balance. Malt yeast Agar is formulated by Wickerham for the isolation, cultivation and maintenance of yeast and moulds and other aciduric microorganisms(1).

Malt Agar is included in Official Methods of Analysis of AOAC International (2). Malt Yeast Agar is recommended by MTCC for cultivation and maintenance of *Saccharomyces cerevisiae*.(3)

Malt Yeast Agar contains malt extract, which provides carbon, protein and nutrient sources required for the growth of microorganisms. Peptone and yeast extract provides nitrogen compounds, vitamin B complex and other growth nutrient.

### Quality Control

#### Appearance

Cream to brownish yellow homogeneous free flowing powder

#### Gelling

Firm, comparable with 2% Agar gel

#### Colour and Clarity of prepared medium

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

#### Reaction

Reaction of 4.10% w/v aqueous solution at 25°C. pH : 6.2±0.2

#### pH

6.00-6.40

#### Cultural Response

Cultural characteristics was observed after an incubation at 25 - 30°C for 48 - 72 hours.

#### Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
<b>Cultural Response</b>			
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant	
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	≥70%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	≥70%

## 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. Wickerham, J. Tropical Med. Hyg., 42, 176 (1939).
2. Williams, (Ed.), 2005, Official Methods of Analysis of the Association of Official Analytical Chemists, 19th Ed., AOAC, Washington, D.C.
3. Microbial Type Culture Collection and Gene Bank (MTCC ) Institute of Microbial Technology, Chandigarh.

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