



## Malt Extract Agar Base

**RDM-MEA-01**

### Principle

Malt extract agar base is simple medium composed of malt extract, peptone, dextrose and agar used for isolation, detection and cultivation of yeast. Malt extract provides carbon, protein and nutrient sources required, in addition to that it provides acidic environment favorable for the growth of yeasts. The acidified medium inhibits the growth of bacteria and allows good recovery of yeasts and molds. Peptone provide excess supply of nitrogen and amino acids. Dextrose is the fermentable carbohydrate.

**Use:** Recommended for the isolation, detection and cultivation of yeast.

### Contents\*

<b>Ingredients</b>	<b>Gram/Litre</b>
Malt Extract	20.00
Peptone	1.00
Dextrose	20.00
Agar	20.00

\* Formula adjusted for optimum performance and parameters

**Directions:** Dissolve 61.00 grams in 1000 ml distilled water, boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and add 5.0 ml of glacial acetic acid (the final pH of medium should be 3.2±0.2) and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

### Specimens' types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

### Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

### Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

### Quality Control

<b>Appearance</b>	Beige colored free flowing, homogeneous powder
<b>Reaction of 6.1% solution with 0.5% glacial acetic acid</b>	3.2 ±0.2 at 25 °C
<b>pH</b>	3.00- 3.40
<b>Gelling</b>	Firm comparable with 2% agar gel
<b>Color and clarity of ready medium</b>	Amber colored opalescent gel
<b>Growth Promotion properties</b>	Best at ≤ 100 CFU at 25-30 °C for 18-72 h
<b>Negative control</b>	Performed using sterile distilled water

## Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation
<i>Candida albicans</i>	10231	50-100	Luxurious	25-30 °C, 3-5 days

## Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

**Disposal:** To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

## Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015), *Manual of Clinical Microbiology*, 11<sup>th</sup> Edition. Vol. 1.

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