OXFORD LAB FINE CHEM LLP
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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Malt Extract Broth Base

Principle

Malt Extract Broth is recommended for the examination of yeasts and molds in the U.S. Food and Drug Administration's Bacteriological Analytical Manual (2005). The media is composed of mycological peptone and malt extract. Mycological peptone provides nitrogen, vitamins, minerals, amino acids and growth factors. Malt extract provides an energy source for the growth of microorganisms and provide acidic environment for the growth of yeasts and molds. The low pH favor's fungal growth and inhibits contaminating bacteria and makes it useful for cultivating fungi and aciduric microorganisms. Mycological peptone rapidly gives a luxuriant growth with typical morphology and pigmentation. Malt Extract Broth Base has been widely used in the maintenance, isolation and identification of fungi and it is also proposed in several pharmacopeias as a medium for the control of sterility in pharmaceutical products, though it is mostly used for comparative morphological studies.

Use: For the detection and enumeration of yeasts, molds & aciduric microorganisms.

Contents*

Ingredients	Gram/Litre
Mycological peptone	3.00
Malt Extract	17.00
pH at 25˚C	5.4±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 20.00 grams in 1000 ml distilled water. Heat, if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (115°C) for 10 min, Cool to 20-25°C and aseptically inoculate test sample.
Note: To avoid the growth of bacteria and desired adjust the acidic pH by using 10% lactic acid solution.

Specimens' types analyzed

Clinical samples - skin and scalp lesions etc.

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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

Appearance	**Beige colored free flowing, homogeneous powder**
Reaction of (2.0% w/v aqueous solution)	**5.4 ± 0.2 at 25°C**
pH	**5.20- 5.60**
Color and clarity of ready medium	**Amber colored clear solution**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 25-30°C for 48-72 hours.

Organism	ATCC	Inoculum (CFU)	Growth
Aspergillus brasiliensis	16404	50-100	Luxuriant
Candida albicans	10231	50-100	Luxuriant
Saccharomyces cerevisiae	9763	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

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.

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Reference

1. **FDA Bacteriological Analytical Manual, (2005), 18th Ed., AOAC, Washington, DC.**
2. **Gallowey L. D. and Burgess R., (1952), Applied Mycology and Bacteriology, 3rd Ed., Leonard Hill, London, 54:57**

Disclaimer:

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