OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Malt Extract Agar Base

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: For the detection and cultivation of Yeasts.

Contents*

Ingredients	Gram/Litre
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.

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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 6.1% solution with 0.5% glacial acetic acid	**3.2 ±0.2 at 25 ˚C**
pH	**3.00- 3.40**
Gelling	**Firm comparable with 2% agar gel**
Color and clarity of ready medium	**Amber colored opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 25-30 ºC for 18-72 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 25-30°C for 3-5 days.

Organism	ATCC	Inoculum (CFU)	Growth
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

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2. **Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.**
3. **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, 11th Edition. Vol. 1.**

Disclaimer:

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