

TECHNICAL DATA SHEET

Yeast Malt Broth (YM Broth)

Principle

Yeast Malt Broth is formulated as per Wickerham (1951) for isolation and cultivation of yeasts, moulds and other aciduric microorganisms. Media is composed of peptone, yeast extract, malt extract and dextrose. Peptone serves as a source of nitrogen and essential nutrients. Yeast extracts provides vitamin B complex nutrients and other growth factors. Malt extract serves as source of carbon. Dextrose is the carbohydrate and energy source. To increase the selectivity, the media can be fortified by the addition of sterile 10% HCl, tartaric acid or 10% citric acid. Alternatively antibiotics (penicillin 20U/ml or streptomycin to a final concentration of 40 mg/ml) can be added. Acidified medium should not be reheated.

Use: For the cultivation of yeasts, molds and aciduric microorganisms.

Contents*

Ingredients	Gram/Litre
Peptone	5.00
Yeast Extract	3.00
Malt Extract	3.00
Dextrose	10.00
pH at 25°C	6.2 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 21.00 grams in 990 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and distribute aseptically desired and inoculate test sample aseptically.

To increase the selectivity the media is acidified up to pH 3.0 to 4.0 by adding 10 ml of 10% lactic acid solution or add antibiotics. **DO NOT HEAT OR BOIL** after addition of acid or antibiotics. Mix well and dispense as desired.

Specimens types analyzed

Food samples and dairy products.

OXFORD LAB FINE CHEM LLP

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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



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	Light beige colored, free-flowing, homogeneous
Reaction of 2.10% solution	6.20 ±0.2 at 25 °C
pH	6.00- 6.40
Color and clarity of ready medium	Light yellow colored, clear opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after an incubation at 30°C for 42-72 hours

Organism	ATCC	Growth at pH	Growth at pH	Incubation
		3.4	6.2	
<i>Aspergillus brasiliensis</i>	16404	Luxurious	Luxurious	30-37°C, 42-72 hrs
<i>Candida albicans</i>	10231	Luxurious	Luxurious	30-37°C, 42-72 hrs
<i>Escherichia coli</i>	8739	inhibited	inhibited	30-37°C, 42-72 hrs

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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.

Reference

1. Wickerhams, L.J. (1951) *Taxonomy of Yeasts*. US Department of Agriculture, Washington DC, Technical Bulletin No.1029, 1-56.

Disclaimer:

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