OXFORD LAB FINE CHEM LLP
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TECHNICAL DATA SHEET

Oxytetra Glucose Yeast Agar Base (OGYE Agar Base)

Principle

Oxytetra glucose yeast agar base is formulated by Mossel et al. (1962-1970) for the selective isolation and enumeration of yeast and molds from food samples. The media was formulated to enumerate the yeast and molds in neutral condition which prevent the stress, inhibition of yeast and molds and loss of cell during acidic condition. The media is composed of yeast extract, glucose and agar. The media can be formulated with antibiotics to inhibit the growth of bacteria, most commonly used antibiotic is oxytetracycline. The addition of oxytetracycline also increase the recovery of yeast and molds.

Use: For the selective isolation and enumeration of yeast and molds in food products.

Contents*

Ingredients	Gram/Litre
Yeast Extract	5.00
Dextrose	20.00
Agar	12.00
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 37.00 grams in 995 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 add 5 ml of Oxytetracycline solution containing 100mg of oxytetracycline, mix well and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Food samples and dairy products.

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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	**Light beige colored, free-flowing, homogeneous**
Reaction of 3.70% solution	**7.00 ±0.2 at 25 ˚C**
pH	**6.80- 7.20**
Gelling	**Firm comparable with 1.2% agar gel**
Color and clarity of ready medium	**Light amber, clear opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 25-30ºC for 2-5 days**
Indicative properties	**Optimum at ≤ 100 CFU at 25-30ºC for 2-5 days**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate the plates at 25-30ºC for 2-5 days.

Organism	ATCC	Growth	Recovery
Candida albicans	**10231**	**Luxuriant**	**≥ 60%**
Aspergillus brasiliensis	**16404**	**Luxuriant**	**≥ 60%**
Saccharomyces cerevisiae	**9763**	**Luxuriant**	**≥ 60%**
Escherichia coli	**8739**	**Inhibited**	**--**

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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. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **Mossel D. A. A., Kleynen-Semmeling H. M., Vincentie H., Beerens H. and Catsaras M., (1970), J. Appl. Bacteriol., 33:454**
3. **Mossel D. A. A., Visser M. and Mengerink W. H. J., (1962), Lab. Pract. 11:109. Revision: 03 / 2019**
4. **Salfinger Y., and Tortorello M.L., (2015), Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.**

Disclaimer:

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