OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Yeast Extract Agar

Principle

Yeast extract agar is described by Windle Taylor (1958), it highly nutritious medium composed of peptone, yeast extract and agar. Peptone provides nitrogen, amino acids and other trace nutrients. Yeast extract source of nitrogenous compounds, vitamin B complex and other growth nutrients. Agar is solidifying agent. The media is used for enumeration of microorganism in water by generally pour plate technique is used and rarely spread plate technique.

Use: Recommended for transport and preservation of microbiological specimens.

Contents*	
Peptone	**Gram/Litre**
Yeast Extract	**5.00**
Agar	**3.00**
pH at 25˚C	**15.00**
	7.2 ±0.2

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

Directions: Dissolve 23.00 grams in 1000 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 in sterile petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

water 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 2.3% solution	**7.2 ±0.2 at 25 ˚C**
pH	**7.00- 7.40**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber colored slightly opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response
Characteristic observed when subculture on tryptone soya agar

Organism	ATCC	Inoculum	Growth	Recovery	Incubation
Pseudomonas aeruginosa	27853	50-100	Luxurious	70-80%	33-37 ºC, 18-24 h
Escherichia coli	8739	50-100	Luxurious	70-80%	33-37 ºC, 18-24 h
Staphyloccus aureus	25923	50-100	Luxurious	70-80%	33-37 ºC, 18-24 h

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.

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Reference

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), (2015), Standard Methods for the Examination of Water and Wastewater, 23rd Ed., APHA, Washington, D.C.
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..

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