OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Meat Extract Agar

Principle

Meat extract agar is simple medium used for cultivation of non-fastidious organism. Media composed of peptone, beef extract, sodium chloride and agar. Peptone and beef extract provides amino acids, other growth factors like carbon, nitrogen, vitamins and nutrient sources to support the growth of microorganisms. Sodium chloride maintains the osmotic balance. Agar solidifying agent.

Use: For routine cultivation of non-fastidious bacteria.

Contents*

Ingredients	Gram/Liter
Peptone	10.000
Beef Extract	3.000
Sodium Chloride	5.000
Agar	15.000
pH at 25°C	7.4±0.2

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

Directions Dissolve 33.00 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 distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Clinical and non-clinical, food, dairy and 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	**Light beige, free flowing, homogeneous powder**
Reaction of 3.30% solution	**7.4 ± 0.2 at 25°C**
pH	**7.20 – 7.60**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Pale yellow colored, opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 35 ± 2ºC for 18-48 hrs**
Indicative properties	**Optimum at ≤ 100 CFU at 35 ± 2ºC for 18-24 hrs**
Negative control	**Performed using sterile distilled water**

Different Microbial Response
Cultural characteristics observed after an incubation at 35 ± 2ºC for 18-48 hrs

Organism	ATCC no.	Inoculum	Growth	Recovery
Escherichia coli	**8739**	**50-100**	**Luxuriant**	**≥ 70%**
Salmonella typhimurium	**14028**	**50-100**	**Luxuriant**	**≥ 70%**
Pseudomonas aeruginosa	**27853**	**50-100**	**Luxuriant**	**≥ 70%**
Staphylococcus aureus	**25923**	**50-100**	**Luxuriant**	**≥ 70%**
Candida albicans	**10231**	**50-100**	**Luxuriant**	**≥ 70%**

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. **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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