OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Bile Salt Agar

Principle

Bile Salt Agar is formulated as per recommended by BIS (1986) for isolation, identification and enumeration of *Vibrio cholerae*. The media is composed of peptone, special peptone, sodium chloride, sodium taurocholate and agar. The bile salt provides selectivity for the growth of Vibrio species, and many other gram-negative bacteria. On bile salt agar colonies of Vibrio's have a distinctive appearance and can be easily differentiated from Escherichia coli. The medium contains peptone, special peptone (equivalence to meat extract) which provides carbonaceous, nitrogenous compounds and other essential growth nutrients. Sodium chloride maintains osmotic equilibrium of the medium. Sodium taurocholate inhibits most of the gramnegative organisms.

Use: For isolation and enumeration of bile tolerant enteric bacilli

Contents*

Ingredients	Gram/Litre
Peptone	10.00
Meat Extract	5.00
Sodium Chloride	5.00
Sodium Taurocholate	5.00
Agar	15.00
pH at 25˚C	8.5 ±0.2

*** Formula adjusted for optimum performance and parameters # Equivalent to Beef extract**

Directions: Dissolve 40.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C), cool to 45-50°C. 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.

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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 4.00% solution	**8.5 ±0.2 at 25 ˚C**
pH	**8.30- 8.70**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Light amber, clear opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37ºC for 18-48 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37ºC for 18-24 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after an incubation at 35 ± 2°C for 18-48 hours

Organism	**ATCC no.**	**Growth**	**Recovery**
Escherichia coli	**8739**	**Luxurious**	**≥ 60%**
Vibrio cholerae	**15784**	**Luxurious**	**≥ 60%**
Salmonella Typhimurium	**14028**	**Luxurious**	**≥ 60%**
Staphylococcus aureus	**25923**	**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.**
Baird R.B., Eaton A.D., and Rice E.W., (Eds.), (2015), ***Standard Methods for the Examination of Water and Bureau of Indian Standards*** **BIS : 5887 (Part V) Reaffirmed 1986.**

Disclaimer:

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