OXFORD LAB FINE CHEM LLP
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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Sheep Blood Agar Base w/o Blood

Principle

Sheep blood agar base is modification of blood agar base with slight deviation in composition and pH. The media is composed of peptone, tryptone (equivalent to liver digest), yeast extract, sodium chloride and agar. Peptone and tryptone provide nitrogen, amino acids, carbon, vitamins and other necessary growth factors necessary for growth of microorganisms. Yeast extract provides additional nutritional sources and vitamins and other growth factors. Sodium Chloride to maintain osmotic balance and agar as a solidifying agent. The media need supplementation of blood (5-10%), which provides additional growth factors for fastidious microorganisms and is the basis for determining hemolytic reactions. The media can also be used as generalpurpose media without the addition of blood.

Use: For improved haemolytic reactions of organisms.

Contents*

Ingredients	Gram/Liter
Tryptone	14.000
Peptone	4.500
Yeast Extract	4.500
Sodium Chloride	5.000
Agar	12.500
pH at 25˚C	7.4 ±0.2

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

Directions: Dissolve 40.5 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 aseptically add 5% v/v sterile defibrinated blood. Mix well and pour into sterile petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples, food and dairy samples etc.

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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	**Beige colored free flowing, homogeneous powder**
Reaction of 4.05% solution	**7.4 ±0.2 at 25 ˚C**
pH	**7.20- 7.60**
Gelling	**Firm comparable with 1.25% agar gel**
Color and clarity of ready medium	**Without blood: dark amber, slightly opalescent gel. With 5% blood: cherry red, opaque 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: Cultural characteristics observed after incubation at 35±2°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Hemolysis
Streptococcus pneumoniae	**6303**	**Luxuriant**	**≥ 70%**	**Alpha (media become light green hued around the colonies)**
Streptococcus pyogenes	**19615**	**Luxuriant**	**≥ 70%**	**Beta (media become light yellow and transparent around the colonies)**
Staphylococcus aureus	**25923**	**Luxuriant**	**≥ 70%**	**Beta (media become light yellow and transparent around the colonies)**
Escherichia coli	**8739**	**Luxuriant**	**≥ 70%**	**No hemolysis**

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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. **Brown, J. H. (1919). The use of blood agar for the study of streptococci, NY Monograph No. 9. The Rockefeller Institute for Medical Research.**
3. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
4. **Isenberg, H.D. Clinical Microbiology Procedures Handbook 2 nd Edition.**
5. **Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual Clinical Microbiology, 11th Edition. Vol. 1.**

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