

TECHNICAL DATA SHEET

Sheep Blood Agar Base, Modified

Principle

Sheep blood agar base, Modified and formulated in accordance with ISO 21871 for maximum recovery of *Bacillus cereus*. The media is composed of soya peptone, tryptone, sodium chloride, and agar. Soya peptone and tryptone provide nitrogen, amino acids, carbon, vitamins, and other necessary growth factors necessary for the growth of microorganisms. Sodium chloride to maintain osmotic balance and agar as a solidifying agent. The media need supplementation of blood (5%), which provides additional growth factors for fastidious microorganisms and is the basis for determining haemolytic reactions.

Use: For cultivation and studying haemolytic reactions of *Bacillus cereus*.

Contents*

Ingredients	Gram/Liter
Soya peptone	5.000
Tryptone	15.000
Sodium Chloride	5.000
Agar	12.500
pH at 25°C	7.3 ± 0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 37.50 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

Food and food products, animal feeding stuffs.

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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 3.75% solution	7.3 ±0.2 at 25 °C
pH	7.10- 7.50
Gelling	Firm comparable with 1.25% agar gel
Color and clarity of ready medium	Without blood: medium to dark amber, slightly opalescent gel. With 5% blood: cherry red, opaque gel.
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-48 hours
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 hours
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 35±2°C for 18-24 hours.

Organism	ATCC	Growth	Recovery	Hemolysis
<i>Bacillus cereus</i>	10876	Luxuriant	≥ 70%	Beta (media become light yellow and transparent around the colonies)

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.

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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. ISO 21871:2006 Microbiology of Food & Animal feeding stuffs. Horizontal method for the determination of low numbers of presumptive *Bacillus cereus* - Most probable number technique and detection methods.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition
3. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
4. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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