

TECHNICAL DATA SHEET

Modified Soybean Bile Broth Base

Principle

The composition and performance criteria of this medium are as per the specifications laid down in ISO 1999 Draft ISO/DIS 16654. It can also be isolated from clinical samples. Modified soybean bile broth base medium is composed of casein peptone, soya peptone, dextrose, bile salts, Dipotassium phosphate and sodium chloride. Casein and soya peptone provides ample amount of the carbon, nitrogen, essential and nonessential amino acids, along with the trace minerals. The Bile salts in it inhibit the gram-positive microbes. Dextrose is a carbohydrate source. Phosphate acts as buffering agent and sodium chloride maintain osmotic equilibrium. Bile broth base used as selective microbial media for enumeration and detection of the enterococcus family members.

Use: For the detection of Escherichia coli O157:H7 from food and animal feed samples.

Contents*

Ingredients	Gram/Litre
Casein peptone	17.000
Soya peptone	3.000
Dextrose	2.500
Bile salts	1.500
Dipotassium phosphate	4.000
Sodium chloride	5.000
pH at 25°C	7.3 ±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 and 121 °C for 15 minutes, cool it to 42-45 °C add Novobiocin (20 mg), mix well and distribute aseptically in sterile test tubes and inoculate test sample aseptically.

Specimens' types analyzed

Food and dairy samples, clinical and non-clinical 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	Light beige colored free flowing, homogeneous powder
Reaction of 3.30% solution	7.3 ±0.2 at 25 °C
pH	7.10- 7.50
Color and clarity of ready medium	Light amber color, clear solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after incubation at 35-37°C Or 41.5°C for 18-24 hours, with added Novobiocin. Recovery done on Sorbitol MacConkey Agar.

Organism	ATCC	Inoculum	Growth
<i>Escherichia coli</i> <i>O157:H7</i>	NCTC 12900	50-100	Luxurious
<i>Escherichia coli</i>	25922	50-100	Good
<i>Staphylococcus aureus</i>	25923	50-100	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. FDA Bacteriological Analytical Manual, (2005), 18th Ed., AOAC, Washington,D.C.
2. International Organization for Standardization (ISO), (2005), Draft ISO/DIS 16654. Revision : 03/ 2019
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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