

TECHNICAL DATA SHEET

SS Broth (Salmonella Shigella Broth)

Principle

Salmonella Shigella broth composed of proteose peptone, meat extract, lactose, bile salts, sodium citrate, sodium thio-sulphate, ferric citrate, neutral red and brilliant green. Proteose peptone and meat extract provide essential growth nutrients. Lactose is the fermentable carbohydrate. Brilliant green, bile salts and thiosulphate provide selectively and inhibit gram-positive and coliform organisms. Certain organisms reduce sodium thiosulphate to sulphite and H₂S gas. Sodium thiosulfate and ferric citrate allow the detection of hydrogen sulfide by the production of colonies with black centers. Neutral red and brilliant green are present as pH indicators.

Use: A selective and differential medium used in sanitary bacteriology to enrichment Salmonella & Shigella from feces, urine, and fresh and canned foods.

Contents*

Ingredients	Gram/Litre
Proteose peptone	5.000
Meat extract#	5.000
Lactose	10.000
Bile salts	8.500
Sodium citrate	8.500
Sodium thio-sulphate	8.500
Ferric citrate	1.000
Neutral red	0.025
Brilliant green	0.033
pH at 25°C	7.0 ±0.2

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

Directions: Dissolve 46.56 grams in 1000 ml distilled water. Boil to dissolve the medium completely for sterilization. DO NOT AUTOCLAVE, cool it to 42-45 °C and distribute aseptically in to the sterile test tubr and inoculate aseptically.

Specimens types analyzed

Pharmaceutical 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 buff to pink colored free flowing, homogeneous powder
Reaction of 4.65% solution	7.0 $\pm$ 0.2 at 25 °C
pH	6.80- 7.20
Color and clarity of ready medium	Red-orange, clear solution
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 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 33-37°C for 18-24 hours.

Organism	ATCC	Inoculum	Growth	Color
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	Blackening of medium
<i>Salmonella enteritidis</i>	13076	50-100	Luxuriant	Blackening of medium
<i>Shigella flexneri</i>	9199	50-100	Luxuriant	No blackening of medium
<i>Escherichia coli</i>	8739	50-100	Good	No blackening of medium

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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. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. 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.
4. Wehr H. M. and Frank J. H., (2004), *Standard Methods for the Microbiological Examination of Dairy Products*, 17th Ed., APHA Inc., Washington, D.C

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