



Salmonella Shigella Agar. (SS Agar) 100 g / 500 g

Used for the selective isolation and determination of Salmonella and some Shigella sp. from clinical and non-clinical samples.

Product Presentation:

Cat No.	Product description	Pack Size
11190060100	Salmonella Shigella Agar. (SS Agar)	100 Gram
11190060500	Salmonella Shigella Agar. (SS Agar)	500 Gram

Principle

Salmonella Shigella agar composed of proteose peptone, meat extract, lactose, bile salts, sodium citrate, sodium thio-sulphate, ferric citrate, neutral red, brilliant green and agar. 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.

Composition

Ingredients

Grams / Litre

Proteose peptone	5.00
Meat Extract	5.00
Lactose	10.00
Bile Salts Mixture	8.50
Sodium Citrate	8.50
Sodium Thiosulphate	8.50
Ferric Ammonium Citrate	1.00
Neutral Red	0.025
Brilliant Green	0.033
Agar	13.50

Final pH (at 25°C) 7.0±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Pharmaceutical samples, clinical and non-clinical samples etc.

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

FACTORY & OFFICE

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Directions

- ✓ Suspend 60.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ **DO NOT AUTOCLAVE.**
- ✓ Cool immediately in a water bath at 45°C-50°C and pour into sterile petriplates.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Light beige to pink colored homogeneous, free flowing powder

Prepared Appearance: Red colored clear, slightly opalescent gel forms in petridishes

Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after an incubation at 30°C-35°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i>	ATCC 14028	Good	30°C -35°C	18 Hours
<i>Shigella flexneri</i>	ATCC 12022	Good	30°C -35°C	18 Hours
<i>Escherichia coli</i>	ATCC 8739	fair	30°C -35°C	18 Hours

Interpretation of Results

- ✓ Examination of plates for growth after completion of incubation period.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must ensure safe disposal of used or unusable preparation of the products.

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.

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