OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Selenite Broth (Selenite F Broth) (Twin Pack)

Principle

Selenite F Broth is composed of tryptone, lactose, sodium selenite and sodium phosphate. Tryptone provides the nitrogen, and amino acids. Lactose is a fermentable carbohydrate. Sodium selenite is selective agent and inhibits the growth of gram positive and many gram-negative organisms. Although the sodium selenite is reduced by the bacterial growth, and rise in pH takes place that leads to decrease in selectivity of selenite. Since lactose is added into the medium, due to lactose fermentation acid is produce and maintain neutral pH. The decrease in pH due to reduction of selenite is compensated by the acid produce by the lactose fermentation. Sodium phosphate provide phosphate for the growth and help in maintenance of pH if the medium. After incubation growth of organisms is indicated by turbidity in the medium and confirm on Xylose Lysine Deoxycholate Agar or MacConkey Agar.

Use: For isolation of Salmonella species from faeces, urine and other pathological materials.

Contents*

Ingredients	Gram/Litre
Part A	
Tryptone	5.000
Lactose	4.000
Sodium Phosphate	10.000
Part B-	
Sodium Selenite	4.000
Final pH at 25˚C	7.0±0.2

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

Directions: Dissolve 19.0 grams of part A in 800 ml distilled water, add 4.0 g of part B in 200 ml DW, mix Part A and B solutions, heat to dissolve the medium completely and distribute aseptically in sterile test tubes. Sterilize in a boiling water bath for 10 minutes. DO NOT AUTOCLAVE. Excessive heating is detrimental. Discard the prepared medium if large amount red precipitate is settled at bottom which indicate the selenite reduction, if not then allow to cool and inoculate test sample aseptically.

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Specimens types analyzed

Food and dairy products, pharmaceutical samples, clinical and non-clinical samples etc

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	**Part A: Light tan colored free flowing, homogeneous powder Part B: Off white powder.**
Reaction of Part A (1.9%) & Part B (0.4%)	**7.0 ±0.2 at 25˚C**
pH	**6.80- 7.20**
Color and clarity of ready medium	**Light amber colored opalescent solution**
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**

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Different Microbial Response
Prepare media as per label directions. Incubate inoculated medium at 35±2°C for 18-24 hours. After incubation, subculture onto Xylose Lysine Deoxycholate Agar (RDM-XLDA-01) and incubates plates at 35±2°C for 18-24 hours.

Organism	ATCC	Inoculum	Growth	Colonies on XLDA
Salmonella typhimurium	**14028**	**50-100**	**Luxuriant**	**Red with black centers**
Salmonella enterica	**9150**	**50-100**	**Luxuriant**	**Red with black centers**
Salmonella enteritidis	**13076**	**50-100**	**Luxuriant**	**Red with black centers**
Escherichia coli	**8739**	**50-100**	**None to Poor**	**Yellow**
Escherichia coli	**25922**	**50-100**	**None to Poor**	**Yellow**

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.**

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