OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Range of
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TECHNICAL DATA SHEET

Yeast Extract Rose Bengal Broth Base

Principle

Yeast extract rose bengal broth base is composed of yeast extract, disodium phosphate, bile salts, sodium chloride, magnesium Sulphate, sodium pyruvate and rose bengal. Yeast extract rose bengal broth is formulated as recommended in APHA for enrichment of *Yersinia species* from foods. Yeast extract provides nitrogen, carbon, vitamins, amino acids and other trace nutrients required for the growth of microorganisms. Bile salts used as selective agents for the isolation of gram-negative microorganisms, inhibiting grampositive cocci. Disodium phosphate acts as buffering agent. Sodium chloride maintains osmatic equilibrium of the medium. Magnesium sulfate provides ions for metabolic reactions. Sodium pyruvate increases the recovery of stressed cells and enhances growth of *Yersinia species*. Rose Bengal is a selective agent, inhibits bacterial growth.

Use: For the cold enrichment and recovery of Yersinia enterocolitica and Yersinia pseudotuberculosis from foods.

Contents*

Ingredients	Gram/Litre
Yeast Extract	5.000
Disodium Phosphate	17.250
Bile Salts	2.000
Sodium Chloride	1.000
Magnesium Sulphate	0.010
Sodium Pyruvate	1.000
Rose Bengal	0.040
pH at 25˚C	7.9 ±0.2

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

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Directions: Dissolve 26.50 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 room temperature and inoculate test sample aseptically.
Note: For more selectivity dissolve 26.50 grams in 900 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 room temperature and add 100 ml of 4% filter sterilized sorbose solution. Mix well and dispense aseptically as desired.

Specimens types analyzed

Food and dairy samples, environmental 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	**Pinkish beige colored free flowing, homogeneous powder**
Reaction of 2.65% solution	**7.9 ±0.2 at 25 ˚C**
pH	**7.70- 8.10**
Color and clarity of ready medium	**Pink 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

Cultural characteristics observed after incubation at 4°C for 9-10 days or at 10°C for 3 days with added sorbose solution.

Organism	ATCC	Inoculum (CFU)	Growth
Yersinia enterocolitica	27729	50-100	Good

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. **Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Ed.), (2003), *Manual of Clinical Microbiology*, 8th Ed., American Society for Microbiology, Washington, D.C.**
4. **Speck M. L., (Ed.), (1984), *Compendium of Methods for the Microbiological Examination of Foods*, 2nd Ed., APHA, Washington, D.C.**

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