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TECHNICAL DATA SHEET

Rappaport Vassiliadis Salmonella Enrichment Broth

Principle

The Rappaport Vassiliadis Salmonella Enrichment broth is the modification of the R10 medium (Rappaport et.al. 1956) or RV broth (Vassiliadis et.al. 1978), designed by Van Schothorst et al. (1987). The media composed of soya peptone, magnesium chloride, sodium chloride, dipotassium phosphate, potassium dihydrogen phosphate, and malachite green. Soya peptone serves carbon and nitrogen sources for growth requirements. Magnesium chloride raises the osmotic pressure in the medium. The malachite green and magnesium chloride together act as selective agent and inhibit the growth of other organisms than *Salmonellae*. The low pH of the medium (5.2±0.2 at 25°C), combined with the presence of malachite green and magnesium chloride, provides selectivity to highly resistant *Salmonella spp.* The phosphate buffers the medium.

Use: For the selective enrichment & isolation of Salmonella species from pharmaceutical products.

Contents*

Ingredients	Gram/Litre
Soya Peptone	4.500
Magnesium Chloride	29.000
Sodium Chloride	8.000
Dipotassium phosphate	0.400
Potassium Dihydrogen Phosphate	0.600
Malachite Green	0.036
pH at 25˚C	5.2 ±0.2

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

Directions: Dissolve 27.11 grams in 1000 ml distilled water. Sterilize by autoclaving at 10 lbs pressure (115°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Food and food product, animal feed products 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	**Pale yellow with blue ting colored free flowing, homogeneous powder**
Reaction of 2.71 % solution	**5.2 ±0.2 at 25 ˚C**
pH	**5.00- 5.40**
Color and clarity of ready medium	**Greenish blue 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**

Different Microbial Response: Cultural characteristics are observed after incubation at 33–37°C for 18– 24 hours. After enrichment in the Rappaport Vassiliadis Salmonella Enrichment Broth, recovery is carried out on Xylose Lysine Deoxycholate Agar (RDM-XLDA-01). Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Colony color On XLD Agar
Salmonella typhimurium	**14028**	**Luxuriant**	**≥ 70%**	**Red with black centers**
Salmonella abony	**NCTC-6017**	**Luxuriant**	**≥ 70%**	**Red with black centers**
Salmonella enteritidis	**13076**	**Luxuriant**	**≥ 70%**	**Red with black centers**
Staphylococcus aureus	**25923**	**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. **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. **Rappaport, F., N. Konforti, and B. Navon (1956) A new enrichment medium for certain Salmonellae J. Clin. Pathol. 9:261-266.**
5. **Vassiliadis, P., D. Trichopoulos, A. Kalandidi, and E. Xirouchaki (1978), Isolation of Salmonellae from sewage with a new procedure of enrichment. J. Appl. Bacteriol. 44:233-239.**
6. **Van Schothorst M., Renauld A. and VanBeek C., (1987), Food Microbiol., 4:1**

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