

# RVS (Rappaport-Vassiliadis Soya Peptone) Broth



Medium used for the isolation and cultivation of *Salmonella* spp. from meat, dairy products, feces and sewage polluted water.

\*Equally use with MFDS (MB-R0914K).

## • CONTENTS (Liter)

Soya Peptone	4.5 g
Sodium Chloride	7.2 g
Potassium Dihydrogen Phosphate	1.26 g
Di-Potassium Phosphate	0.18 g
Magnesium Chloride, Anhydrous	13.58 g
Malachite Green Oxalate	0.036 g
Final pH = 5.6 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 26.76 G of powder in 1 L of distilled or deionized water (This formulation causes a slight exothermic reaction when mixed with water). Heat to boiling until completely dissolved. Sterilize by autoclave at 115°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

## • INTERPRETATION

RVS (Rappaport-Vassiliadis Soya Peptone) Broth is a medium used for the isolation and cultivation of *Salmonella* spp. from meat, dairy products, feces and sewage polluted water. Soya peptone is the carbon and nitrogen sources. Sodium chloride maintains the osmotic balance. Potassium dihydrogen phosphate and di-potassium phosphate are the buffering agents. Magnesium chloride anhydrous makes the medium high osmotic pressure. Malachite green oxalate inhibits many Gram-positive bacteria.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 41.5 ± 1°C for 20 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: greenish light beige

### Prepared medium

Appearance: clear

Color: blue

Incubation conditions: 41.5 ± 1°C / 20 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Staphylococcus aureus</i>	25923	≥10 <sup>3</sup>	inhibited

## • WARNING AND PRECAUTIONS

Check the label before opening the container and follow appropriate microbiological laboratory procedures. Wear protective gloves, protective clothing, safety glasses, and face protection. Safety instructions can be found in Material Safety Data Sheet (MSDS).

## • PERFORMANCE AND EVALUATION

Performance of the medium can be expected when used according to the directions on the label within the recommended temperature.

## • STORAGE AND SHELF LIFE

The powder is very hygroscopic. Store in the provided container according to the temperature indicated on the container surface and store the prepared medium at a temperature of 2 to 8°C. Use within the expiration date indicated on the label and store in a dry and well-ventilated place. The product can be used until the stated expiration date.

## • REFERENCES

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3. Rappaport F., Konforti N. and Navon B. (1956) J. Clin. Path. 9. 261-266.
4. Vassiliadis P., Pateraki E., Papaiconomou N., Papadakis J.A. and Trichopoulos D. (1976a) Annales de Microbiologie (Institut Pasteur) 127B. 195-200.
5. Vassiliadis P., Trichopoulos D., Kalapothaki V. and Serie C. (1981) J. Hyg. Camb. 87. 35-39.
6. Harvey R.W.S., Price T.H. and Xirouchaki E. (1979) J. Hyg. Camb. 82. 451-460.
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8. Vassiliadis P., Kalapothaki V., Trichopoulos D., Mavromatte C. and Serie C. (1981) Appl. & Environ. Microbiol. 42. 615-618.
9. Vassiliadis P., Kalapothaki V. and Trichopoulos D. (1991) J. Food Prot. 54. 421-423.
10. British Pharmacopoeia, 2012, The Stationery office British Pharmacopoeia.
11. Refer to the MFDS.

## • PACKAGE

Cat. No : MB-R0914 RVS (Rappaport-Vassiliadis Soya Peptone) Broth	500 G
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