

Rappaport Vassiliadis (RV) Broth (KP)



Medium used for the isolation and cultivation of *Salmonella* spp. from pharmaceutical products.

*Equally use with USP and EP.

• CONTENTS (Liter)

Soy Peptone	4.5 g
Sodium Chloride	8.0 g
Dipotassium Phosphate	0.4 g
Monopotassium Phosphate	0.6 g
Magesium Chloride Anhydrous**	13.58 g
Malachite Green Oxalate	0.036 g
Final pH = 5.2 ± 0.2 at 25°C	

**Equivalent 29.0 G Magnesium Chloride Hexahydrate.

• PROCEDURE

Suspend 27.12 G of powder in 1 L of distilled or deionized 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

Rappaport Vassiliadis (RV) Broth (KP) is a medium used for the isolation and cultivation of *Salmonella* spp. from pharmaceutical products. Soy peptone provides nitrogen, carbon, amino acids and minerals. Sodium chloride maintains the osmotic balance. Phosphates are the buffering agents. Magnesium chloride 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 30 - 35°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: pale green to green

Prepared medium

Appearance: clear

Color: blue

Incubation conditions: 30 - 35°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Staphylococcus aureus</i>	6538	≥10 ³	inhibited

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Van Schothorst M. and Renaud A.M. (1983) J. Appl. Bact. 54. 209-215.
2. Van Schothorst M., Renaud A. and VanBeek C., 1987, Food Microbiol., 4:11.
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.
7. Vassiliadis P. (1983) J. Appl. Bact. 54. 69-75.
8. Vassiliadis P., Kalapothaki V., Trichopoulos D., Mavromatte C. and Serie C. (1981) Appl. & Environ. Microbiol. 42. 615-618.
9. Vassiliadis P. (1983) J. Appl. Bact. 56. 69-76.
10. Vassiliadis P., Kalapothaki V. and Trichopoulos D. (1991) J. Food Prot. 54. 421-423.
11. British Pharmacopoeia, 2012, The Stationery office British Pharmacopoeia.
12. Refer to the KP, USP and EP.

• PACKAGE

Cat. No : MB-R1175P Rappaport Vassiliadis (RV) Broth (KP)	500 G
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