RAPPAPORT VASSILIADIS BROTH (PH.EUR)

RSVB-00E-500

- **Principle**

Rappaport Vassiliadis Broth is recommended as the selective enrichment medium when isolating Salmonella species from food and environmental specimens and is recommended by the European Pharmacopoeia in Paragraph 2.6.13 “Microbiological examination of non-sterile products: test for specified microorganisms” for the test of Salmonella in products.

Soy peptone provides nitrogen, vitamins and amino acids, essential nutrients for growth. Potassium phosphates balance the low pH of the medium, combined with the presence of magnesium chloride to raise the osmotic pressure, and malachite green to inhibit other organisms.

This medium has been found to be superior to other Salmonella selective enrichment media, especially when small inoculate and a preenrichment broth are used.

- **Regulatory compliance**

This product is manufactured under a quality management system in accordance with ISO 9001 and ISO 13485, and its formulation and quality control comply with applicable international standards, such as ISO 11133, where relevant.

For this specific medium, compliance is also established with the relevant requirements of the USP as well as the European Pharmacopoeia reference methodology.

- **Composition**

Ingredients	**g/L**
Dipotassium phosphate	0.40
Malachite green	0.036
Sodium chloride	8.00
Magnesium chloride anhydrous	13.58
Monopotassium phosphate	0.60
Soy peptone	4.50

- **Preparation**

Suspend 27.11 grams of the medium in one litre of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 115 °C for 15 minutes.

- **Applications and use**

For the test for specified microorganisms (Salmonella) according to European Pharmacopoeia:

- After preenrichment with Trypticasein Soy Broth (TSB) (STRB-0EP-500), transfer 0.1 ml to 10 ml of Rappaport Vassiliadis Broth.

- Incubate at 30-35 °C for 18-24 hours.

- Subcultivate in plates of XLD Agar (AGXL-0EP-500) and incubate at 30-35 °C for 18-48 hours.

- The possible presence of Salmonella is indicated by the growth of well developed, red colonies with or without black centres. These results can be confirmed with Identification tests.

- The product complies with the test if colonies of the types described are not present, or if the confirmatory identification tests are negative.

- **Quality control**

Solubility	w/o rests
Appearance	Fine powder
Colour of the dehydrated medium	Blue greenish
Colour of the prepared medium	Blue
Final pH (25 °C)	5.2 ± 0.2

- **Microbiological test**

According to European Pharmacopoeia: Incubation conditions: 30-35 °C / 18-24 h.

Microorganisms	ATCC	Specification
Salmonella typhimurium	14028	Good growth, turbidity
Staphylococcus aureus	6538	Inhibited

- **Storage**

The product is highly hygroscopic; keep the container always closed 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. Temp. Min.:2 °C Temp. Max.:25 °C.

Note: Sterilize media immediately after reconstitution.

- **Bibliography**

European Pharmacopeia 9.0

- **Product use limitation**

This product is developed, designed and supplied exclusively for research use only. It is not intended for diagnostic applications or drug development, and it is not suitable for administration to humans or animals.