

### ARVL001

### Rappaport - Vassiliadis Salmonella Enrichment Broth

For selective enrichment of Salmonella species, low pH, according to harmonized methods of USP / EP/ BP / JP and IP.

<b>Composition</b>	<b>Ingredients Gms / Litre</b>
Soya Peptone	4.500
Magnesium Chloride Hexahydrate	29.000
Sodium Chloride	8.000
Dipotassium Phosphate	0.400
Potassium Dihydrogen Phosphate	0.600
Malachite Green	0.036

#### **Appearance:**

Sterile clear Rappaport Vassiliadis Enrichment Broth in 15 ml Transparent Clear tubes with screw cap

#### **pH (at 25°C):**

5.00 to 5.40

#### **Principle:**

RAPPAPORT VASSILIADIS SALMONELLA ENRICHMENT BROTH used for selective enrichment of Salmonella species. The composition of the medium was developed by "Rappaport" following the observation that Salmonella was more resistant to hypertonic media than most other enterobacteria. In his experiments, Rappaport showed that magnesium chloride hexahydrate was the most effective of all the salts tested. Finally, van Schothorst and Renaud modified Rappaport Vassiliadis Broth by replacing the Casein peptone with a Soya peptone as the carbon and nitrogen sources for general growth requirements. By incorporating a Sodium chloride, Potassium Dihydrogen phosphate and Dipotassium phosphate buffer into the formula, resulting in a greater stability of the medium over time. Selectivity of the medium was increased still further by the addition of malachite green. Malachite Green is inhibitory to organisms other than Salmonella species. The low pH of the medium, combined with the presence of Malachite Green and Magnesium Chloride hexahydrate, select for the highly resistant Salmonella species.

#### **Quantity of Medium**

10 ml medium in 15 ml Transparent clear tube with screw cap

#### **Cultural Response**

Cultural characteristics observed after incubation at 35-37°C for 18-24 hours and recovery should be greater than 70%.

#### **Sterilization Method**

Sterilized by autoclaving at 115 °C as per validated cycle

#### **Sterility Test:**

Passes release criteria.

#### **Shelf Life and Storage Conditions:**

Use before expiry date on the label and store below 25°C.

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**Reference Pharmacopoeia:**

USP/EP / BP / JP / IP

