**Rappaport Vassiliadis Broth**

**Specification**
Liquid medium for the selective enrichment of *Salmonella* in foodstuffs and other materials.

**Formula** (in g/liter)
- Soya peptone: 4,500
- Sodium chloride: 7,200
- Monopotassium phosphate: 1,260
- Dipotassium phosphate: 0,180
- Magnesium chloride: 13,580
- Malachite green: 0,036
- Final pH: 5.2 ± 0.2

**Directions**
Dissolve 26.8 g of powder in 1 liter of distilled water, heating if necessary to help dissolve the powder. Dispense into test tubes or flasks and sterilize by autoclaving at 121°C for 15 minutes.

**Description**
The Rappaport Vassiliadis medium complies with the recommendations of the APHA for the examination of food. This culture medium is the modification by van Schothorst & Renaud of the R1O medium (from Rappaport et cols.) or RV broth (from Vassiliadis et cols.). The modifications are an adjustment as far as the magnesium chloride concentration is concerned and a buffered reaction of the medium. It shows a higher selectivity towards *Salmonella* and produces better yields than other similar media, especially after preliminary enrichment and at an incubation temperature of 43°C. Malachite green and magnesium chloride inhibit the growth of the microorganisms normally found in the intestine but do not affect the proliferation of most *Salmonellae*. Malachite green inhibits the growth of *Shigella*. Soya peptone improves the growth of *Salmonella*. The low pH of the medium increases its selectivity.

**Technique**
Inoculate the culture medium with the sample or material from a pre-enriched culture in Buffered Peptone Water (Ref. ADB0630) and incubate at 43°C for up to 18-24 hours. Streak the sample material from the resulting cultures on to selective culture media.

**References**
- AOAC International. Gaithersburg. MD