**Product :**
**RAPPAPORT VASSILLIADIS *Salmonella* ENRICHMENT BROTH**

## Specification

Selective liquid medium used for the enrichment of *Salmonella* according to the Pharmacopoeial Harmonised Method and ISO standards.

## Formula * in g/L

Soy peptone..... 4,500
Magnesium chloride.$6H_2O$.....29,000
Sodium chloride..... 8,000
Dipotassium phosphate.....0,400
Monopotassium phosphate..... 0,600
Malachite green.....0,036

Final pH 5,2 ±0,2 at 25 ºC

* Adjusted and /or supplemented as required to meet performance criteria

## Directions

Dissolve 42,5 g of powder in 1 L of distilled water. Warm gently if necessary. Distribute into suitable containers and sterilize in the autoclave at 115ºC for 15 minutes.

## Description

This culture medium is a modification of the Rappaport Vassiliadis Broth (Art. No. 02-379) with the composition adjusted to the formulation proposed by the European Pharmacopoeia in the Harmonised Methodology, and also to the requirements of the Japanese, and United States Pharmacopoeia.

## Technique

Faecal specimens and water can be enriched directly on this medium. For pharmaceutical products, food and environmental specimens, a pre-enrichment step in Buffered Peptone Water is recommended. Refer to suitable methodology (Pharmacopoeia or ISO Standard) for the incubation time and temperatures and confirmation subcultures and tests.
Precautions:
This medium should not be used if Salmonella typhi or S. paratyphi A is suspected.
To obtain optimum recovery, the enrichment broth must be incubated at 41,5 ± 1ºC..

## Quality control

**Incubation temperature:** 30-35ºC **Incubation time:** 21 ± 3h

**Inoculum:** Practical range 10-100 CFU (productivity)/ $10^3$-$10^4$ CFU (selectivity), according to Ph. Eur.

| Microorganism | Growth | Remarks |
|---|---|---|
| *Staphylococcus aureus* ATCC® 6538 | Inhibited | Subculture on XLD 18-48h |
| *Salmonella typhimurium* ATCC® 14028 | Good | Subculture on XLD 18-48h |
| *Salmonella abony* NCTC® 6017 | Good | Subculture on XLD 18-48h |

## References

· ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiology Media. CRC Press Inc. London.
· EUROPEAN PHARMACOPOEIA 10.0 (2020) 10th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.
· ISO Standard 6340 (1995) Water Quality. Detection of Salmonella species.
· PETERZ, M., C. WIBERG & P. NORBERG (1989) The effect of incubation temperature and magnesium chloride concentration on growth of Salmonella in home-made and commercially available dehydrated Rappaport Vassiliadis broths. J. Appl. Bact. 66:523-528.
· USP 33 - NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.
· VASSILIADIS, P., C.H. MAVROMMATI, M. EFSTRATIOU & G. CHROMAS (1985) A note on the stability of Rappaport Vassiliadis enrichment medium. J. Appl- Bact. 59:143-145.

## Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 ºC to 30 ºC).