



## Rappaport Vassiliadis Soy (RVS) Broth

Instructions For Use  
ENGLISH

Selective liquid medium for detection of *Salmonella* according to ISO 6579-1.

### DESCRIPTION

Rappaport Vassiliadis Soy (RVS) Broth is a culture medium used for the selective enrichment of *Salmonella* spp. from food, animal feed, environmental and clinical samples.

This medium conforms to the requirements of ISO 6579-1.

### TYPICAL FORMULA\*

	(g/litre)
Enzymatic Digest of Soya	4.5
Sodium Chloride	7.2
Potassium Dihydrogen Phosphate (KH <sub>2</sub> PO <sub>4</sub> )	1.26
Dipotassium Hydrogen Phosphate (K <sub>2</sub> HPO <sub>4</sub> )	0.18
Magnesium Chloride Anhydrous	13.4
Malachite Green	0.036

Final pH 5.2 ± 0.2 at 25°C

\*Formula may be adjusted and/or supplemented as required to meet performance specifications.

### METHOD PRINCIPLE

Enzymatic digest of soya provides amino acids, nitrogen, carbon, minerals and vitamins for organisms growth. Sodium chloride maintains the osmotic balance of the medium. Potassium phosphates act as a buffer. Magnesium chloride and malachite green are the selective agents. The low pH helps inhibit non-target organisms.

### PREPARATION

Dehydrated medium      Suspend 26.6 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Dispense into final containers. Sterilize in autoclave at 115°C for 15 minutes.

### TEST PROCEDURE

**Following the method described in the ISO 6579-1**, transfer 0.1 ml of the culture obtained in the pre-enrichment (Buffered Peptone Water, ref. 24099) to a tube containing 10 ml of the RVS Broth.

Incubate at 41.5 ± 1°C for 24 ± 3 hours.

Use the culture obtained to inoculate the selective solid media, i.e. XLD agar (ref. 10056) and a second isolation agar.

For more information, see the ISO document.

### Notes:

Before use, allow RVS broth to equilibrate at room temperature if it was stored at a lower temperature.

For some products, like dried milk products and cheese, it may be necessary to incubate the selective enrichment medium for an additional 24 h.

After incubation, the selective enrichment can be stored refrigerated at 5 ± 3°C for up to 72 h.

### INTERPRETING RESULTS

Turbidity in the RVS broth indicates microbial growth.

Refer to the technical sheets of the solid media.

### STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles and tubes at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

### SHELF LIFE

Dehydrated medium: 4 years.

Medium in bottles: 3 years.

Medium in tubes: 2 years.

## QUALITY CONTROL

**Appearance of Dehydrated Medium:** Free-flowing, homogeneous, green.

**Appearance of Prepared Medium:** Clear, blue.

**Expected Cultural Response:**

Control strains	WDCM	Inoculum	Incubation	Criteria
<i>Salmonella</i> Typhimurium + <i>Escherichia coli</i> + <i>Pseudomonas aeruginosa</i>	00031 00012 or 00013 00025	≤100 CFU	24 ± 3 h / 41.5 ± 1°C	>10 characteristic colonies on XLD agar or other medium of choice
<i>Salmonella</i> Enteritidis + <i>Escherichia coli</i> + <i>Pseudomonas aeruginosa</i>	00030 00012 or 00013 00025			
<i>Escherichia coli</i>	00012 or 00013	>10 <sup>3</sup> CFU		Partial inhibition ≤100 colonies on TSA
<i>Enterococcus faecalis</i>	00009 or 00087			<10 colonies on TSA

Please refer to the actual batch related Certificate of Analysis (CoA).

## WARNING AND PRECAUTIONS

**For *in vitro* diagnostic use. For professional use only.** Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

## DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

## BIBLIOGRAPHY

See the references at the end of this document.

## TABLE OF SYMBOLS

See the table of symbols at the end of this document.

**The product is available in the configurations listed below.** There may be additional product ref. numbers as well. For an updated listing of available products, visit [liofilchem.com](http://liofilchem.com)

Product	Format	Packaging	Ref.
Rappaport Vassiliadis Soy (RVS) Broth	Tube	20 x 10 ml	24400
Rappaport Vassiliadis Soy (RVS) Broth	Tube	100 x 10 ml	26400
Rappaport Vassiliadis Soy (RVS) Broth	Bottle	6 x 100 ml	402550 •
Rappaport Vassiliadis Soy (RVS) Broth	Dehydrated medium	500 g	610175
Rappaport Vassiliadis Soy (RVS) Broth	Dehydrated medium	100 g	620175

• Not CE-marked

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[liofilchem.com/ifu-sds](http://liofilchem.com/ifu-sds)