

PRODUCT INFORMATION

Product Type: Tubes (10ml)

Cat No. TT251 - RVS BROTH USP (RVB)

Intended Use:

Rappaport-Vassiliadis Soya Peptone Broth (RVS Broth) is a selective enrichment medium primarily used for the isolation of *Salmonella* species from food, water, animal feed, and clinical samples. It is widely recommended in international standards (e.g., ISO 6579) for *Salmonella* detection.

Principles and uses:

Selective Enrichment: RVS Broth exploits the ability of *Salmonella* to survive and multiply under conditions of high osmotic pressure, low pH, and in the presence of malachite green, which inhibits competing flora.

Not for *S. Typhi/Paratyphi*: The medium is not suitable for the enrichment of *Salmonella Typhi* or *Paratyphi*, as these are inhibited by malachite green.

Soy peptone supports the growth of *Salmonella*. $MgCl_2$ and malachite green inhibit the growth of the accompanying bacterial flora. Furthermore, the low pH increases the selectivity of the medium. The selectivity can be increased by incubation temperatures of 40.5 °C to 42.5 °C.

For the definitive identification of *Salmonella* Subcultures should be made after 12-18 hours of incubation onto selective plate media, such as MacConkey or XLD Agar.

Composition:

Peptone from Soymeal - 4.5 g/l

$MgCl_2 \cdot 6 H_2O$ - 29 g/l

NaCl - 8 g/l

K_2HPO_4 - 0.4 g/l

KH_2PO_4 - 0.6 g/l

Malachite Green Oxalate - 0.036 g/l

Storage: 2°-8°C

Package contents: 20 Tubes

Appearance: clear, dark-blue

pH Range: 5.0 - 5.4

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions:

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Tubes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Tubes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

Waste Disposal

After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:

Test	ATCC NO	INOCULUM	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Salmonella typhimurium</i>	14028	100 cfu	30-35 °C	Aerobic, 18 hours	Growth
<i>Escherichia coli</i>	8739	100000 cfu	30-35 °C	Aerobic, 18 hours	Partially inhibited
<i>Staphylococcus aureus</i>	6538	10000 cfu	30-35 °C	Aerobic, 18 hours	Inhibited
<i>S. typhimurium</i> + <i>E. coli</i> + <i>P. aeruginosa</i>	14028, 8739, 27853	100 cfu	41-43 °C	Aerobic, 24 hours*	<i>S. typhimurium</i> : Growth
<i>Enterococcus faecalis</i>	19433	100000 cfu	41-43 °C	Aerobic, 24 hours*	Inhibited