

TM 2303 – RAPPAPORT VASSILIADIS SOYABEAN MEAL BROTH (ISO 6579-1:2017)

INTENDED USE

Recommended as selective enrichment medium for the isolation of Salmonella species.

PRODUCT SUMMARY AND EXPLANATION

Rappaport Vassiliadis Soyabean Meal Broth (RVSM) is as per the specification laid down in ISO 6579:2002 for the selective enrichment medium for isolation of Salmonella. Rappaport Vassiliadis Soyabean Meal Broth (RVSM) is modification of the Rappaport Vassiliadis Enrichment Broth, revised by van Schothorst. Van Schothorst modified the original formula by addition of dipotassium hydrogen phosphate to buffer the medium and addition of magnesium chloride to enhance the reliability of enrichment broth. Peterz et al have also emphasized the importance of the concentration of magnesium chloride in the final medium.

COMPOSITION

Ingredients	Gms / Ltr
Soya peptone	4.500
Sodium chloride	7.200
Potassium dihydrogen phosphate	1.400
Dipotassium hydrogen phosphate	0.200
Magnesium chloride, hexahydrate	28.600
Malachite green , oxalate	0.036

PRINCIPLE

The medium consists of soya peptone which provides essential growth nutrients. Magnesium chloride raises the osmotic pressure in the medium. Malachite green is inhibitory to organisms other than Salmonellae. The low pH of the medium, combined with the presence of malachite green and magnesium chloride, helps to select for the highly resistant Salmonella species. Phosphates buffer the medium to maintain the constant pH. Sodium chloride maintains the osmotic balance.

INSTRUCTION FOR USE

- Dissolve 26.58 grams in 1000 ml distilled water.
- Heat gently if necessary to dissolve the medium completely.
- Dispense into tubes or flasks as desired and sterilize by autoclaving at 10 psi pressure (115°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow to light blue homogeneous free flowing powder.
Appearance of prepared medium : Blue coloured clear solution without any precipitate.
pH (at 25°C) : 5.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth at 40-42°C	Recovery 40-42°C	Growth at 35-37°C	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Fair	20-30%	Poor	18 - 24 Hours
<i>Salmonella</i> Paratyphi B	8759	50-100	Good	40-50%	Good	18 - 24 Hours
<i>Salmonella</i> Typhi	6539	50-100	Fair-good	20-40%	Fair	18 - 24 Hours
<i>Salmonella</i> Typhimurium	14028	50-100	Good-luxuriant	>=50%	Good-luxuriant	18 - 24 Hours

PACKAGING:

In pack size of 100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Microbiology of food and animal feeding stuffs-Horizontal method for the detection of Salmonella spp, International Organization for Standardization (ISO),6579:2002.
2. Rappaport F., Konforti N. and Navon B., 1956, J. Clin. Pathol., 9, 261-266
3. Van Schothorst M., Renauld A. and VanBeek C., 1987, Food Microbiol., 4:11-18.
4. Van Schothorst M. and Renauld A., 1983, J. Appl. Bacteriol., 54:209-215.
5. Peterz M., Wiberg C. and Norberg P., 1989, J. Appl. Bacteriol., 66,523-528.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedWet GmbH Buckenhof 10 48163 Ahaus, Germany</small>	 European Conformity	 QR Code	 Consults instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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