

TM 270 – RAPPAPORT VASSILIADIS MEDIUM

INTENDED USE

For enrichment of Salmonellae based on its ability to multiply selectively at high osmotic pressure, low pH and at 43 °C, with modest nutritional requirements.

PRODUCT SUMMARY AND EXPLANATION

Rappaport Vassiliadis Medium is designed according to the revised formulation by Van Schothorst et al and is recommended for the selective enrichment of Salmonellae from food and environmental specimens. Present medium is a modification of the Rappaport Vassiliadis Enrichment Broth described by Van Schothorst and Renauld. Addition of magnesium chloride to the medium was reported by Peterz et al. *Salmonella* species can be isolated from human faeces without pre-enrichment by using this medium.

COMPOSITION

Ingredients	Gms / Ltr
Magnesium chloride	36.000
Sodium chloride	7.200
Monopotassium phosphate	1.440
Papaic digest of soyabean meal	4.500
Malachite green	0.036

PRINCIPLE

The medium contains papaic digest of soya bean meal 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. Potassium phosphate buffers the medium to maintain the constant pH. Sodium chloride maintains the osmotic balance.

INSTRUCTION FOR USE

- Dissolve 49.20 grams in 1000 ml distilled water.
- Gently heat if necessary to dissolve the medium completely.
- Dispense as desired and sterilize by autoclaving at 10 psi (115°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow to light blue colour, homogeneous free flowing powder.
Appearance of prepared medium : Bluish green colour, clear to slightly opalescent solution.
pH (at 25°C) : 5.2± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Appearance of colonies	Incubation Temperature	Incubation Period
<i>Salmonella</i> Enteritidis	13076	50-100	Good-Luxuriant	>=50%	Colourless	42-43°C	18-24 Hours
<i>Salmonella</i> Typhimurium	14028	50-100	Good-Luxuriant	>=50%	Colourless	42-43°C	18-24 Hours
<i>Salmonella</i> Typhi	6539	50-100	Good-Luxuriant	>=50%	Colourless	42-43°C	18-24 Hours
<i>Escherichia coli</i>	25922	50-100	None-poor	0-10%	Pink-Red	42-43°C	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. Van Schothorst M., Renauld A. and VanBeek C., 1987, Food Microbiol., 4:11.
2. Van Schothorst M. and Renauld A., 1983, J. Appl. Bact., 54:209.
3. Peterz M., Wiberg C. and Norberg P., 1989, J. Appl. Bact., 66:523.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

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



*For Lab Use Only
Revision: 08 Nov., 2019

