

Technical Information

Modified Rappaport Vassiliadis Medium

Product Code: DM 2137

Application: - Modified Rappaport Vassiliadis Medium is recommended as a selective enrichment medium for the isolation of *Salmonella* species from food and environmental specimens.

Composition**

Ingredients	Gms / Litre
Peptone from soyabeans	5.000
Sodium chloride	8.000
Monopotassium phosphate	1.600
Magnesium chloride, 6H ₂ O	40.000
Malachite green	0.040
Final pH (25°C)	5.2±0.2
**Formula adjusted, standardized to suit performance parameters	54.64 gm/litre

Principle & Interpretation

Modified Rappaport Vassiliadis Medium is a selective broth for the enrichment of *Salmonella* from foodstuffs, environment and clinical specimens. The original formulation described by Rappaport et al ⁽¹⁾ with magnesium chloride hexahydrate was modified by Vassiliadis et al ⁽²⁾ by lowering the concentration of malachite green and increasing the incubation temperature to 43°C.

The test specimen is added to Buffered Peptone Water (DM1614) and incubated at 35°C for 16 - 20 hours. This pre-enriched peptone water culture is inoculated into Modified Rappaport Vassiliadis Medium and incubated at 42 ± 1°C for 24 - 48 hours and further subcultured on Brilliant Green Agar (DM1016).

Methodology

Suspend 54.64 grams of dehydrated medium in 1000 ml distilled water. Heat gently if necessary to dissolve the medium completely. Dispense as desired into tubes and sterilize by autoclaving at 115°C for 15 minutes.

Quality Control

Physical Appearance

Light yellow to light blue homogeneous free flowing powder

Colour and Clarity of prepared medium

Blue coloured clear solution without any precipitate

Reaction

Reaction of 5.4% w/v aqueous solution at 25°C. pH: 5.2±0.2

pH range 5.00-5.40

Cultural Response/ characteristics

M2137: Cultural characteristics observed after an incubation at different temperatures for 24-48 hours, when subcultured on Brilliant Green Agar Base (DM1016) and then incubated at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Recovery at 37°C	Recovery at 42 ± 1°C	Colour of colony
<i>Escherichia coli</i> ATCC 25922	50-100	fair	poor	yellowish green
<i>Salmonella</i> Paratyphi B ATCC 8759	50-100	good	good	pink white
<i>Salmonella</i> Enteritidis ATCC 13076	50-100	luxuriant	luxuriant	pink white
<i>Salmonella</i> Typhi ATCC 6539	50-100	fair-good	fair	pink red
<i>Salmonella</i> Typhimurium ATCC 14028	50-100	luxuriant	luxuriant	pink white

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Rappaport F., Konforti N. and Navon B., 1956, J. Clin. Path., 9:261.
2. Vassiliadis P. Pateraki E., Papaiconomou N., Papadaicis J. A., Trichopoulos D., 1976, Annales de Microbiologie (Institute Pasteur), 127B : 195.

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