Rappaport-Vassiliadis Salmonella Enrichment Broth

Product No.	Product Category	Specification
HCM009	Dehydrated Culture Medium	500g/bottle
023022P1	Granular Medium	250g/bottle

Intended Use

For selective enrichment of salmonella species.

Principle and Interpretation

Salmonella generally survive at little high osmotic pressure, grow at slightly low pH and are resistant to malachite green compared to other bacteria. These characteristics are exploited in this medium for selective enrichment of Salmonella. Magnesium chloride present in the medium raises the osmotic pressure. Natural sugars of soya peptone provide essential growth nutrients and enhance the growth of Salmonella. Phosphate buffers the medium to maintain constant pH. Sodium chloride maintains the osmotic balance. Malachite green inhibits many gram-positive bacteria, while selectively enriches Salmonella.

Formulation

Ingredients	/liter
Soya peptone	4.5g
$MgCl_2$ / $MgCl_2$ * 6 H_2O	13.58g/29.0g
Sodium chloride	8.0g
Dipotassium phosphate	0.4g
Potassium dihydrogen phosphate	0.6g
Malachite green	0.036g
pH5.2±0.2 at 25°C	

Preparation

Suspend 27.1 g in 1 L of distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Distribute into tube. Autoclave at 115℃ for 15 minutes.

Quality Control

Cultural characteristics observed after incubation at 35-37°C for 24 hours

Quality control strains	Growth
Salmonella typhimurium ATCC14028	Good ,broth turbid
Staphylococcus aureus ATCC29212	Inhibited, broth clear

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Escherichia coli ATCC25922	Partial inhibition of growth

Storage and Shelf Life

2-30℃，Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

Revision

On June 14, 2024

References

USP.

EP.

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