TMKH 015 –RAPPAPORT VASSILIADIS SALMONELLA ENRICHMENT BROTH (USP/EP/JP/BP/IP)

INTENDED USE

For selective enrichment of *Salmonella* species from pharmaceutical and clinical samples in accordance with harmonized method.

PRODUCT SUMMARY AND EXPLANATION

Rappaport vassiliadis salmonella enrichment broth is used for enrichment and selective isolation of *Salmonella* species. It conforms to harmonized USP/EP/JP requirements. Rappaport *et al*. formulated an enrichment medium for *Salmonella* species that was modified by Vassiliadis *et al*. Rappaport Vassiliadis Salmonella Enrichment Broth medium is evaluated as an alternative of Rappaport-Vassiliadis (RV) Broth where Soya Peptone has replaced Enzymatic Digest of Casein as the nitrogen and vitamin source which has been reported to enhance the growth of *Salmonella* species.

COMPOSITION

Ingredients	Gms / Ltr
Magnesium chloride hexahydrate	29.00
Sodium chloride	8.00
Soya peptone	4.50
Potassium dihydrogen phosphate	0.60
Dipotassium phosphate	0.40
Malachite green	0.036

PRINCIPLE

Sodium chloride maintains the osmotic balance in the medium. The low pH of the medium, combined with the presence of Malachite green and Magnesium chloride raises the osmotic pressure and Potassium dihydrogen phosphate acts as a buffer, selective for the highly resistant *Salmonella* species. Malachite green is inhibitory to organisms other than *Salmonella* sp. When Rappaport Vassiliadis Salmonella Enrichment Broth medium is combined w.ith direct culture and Selenite enrichment, 98.9% of *Salmonella* are recovered.

INSTRUCTION FOR USE

Label the ready to use botttle. Inoculate the sample and Incubate at specified temperature and time.

QUALITY CONTROL SPECIFICATIONS

Appearance of Prepared media : Turquoise blue colour, slightly hazy solution.
Sterility test : Passes the release criteria.
pH (at 25°C) : 5.2±0.2

INTERPRETATION

Cultural characteristics observed after inoculation (103 CFU/ml) and incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Salmonella arizonae	13314	10 – 100	Good	42±1°C	24-48 Hours
Salmonella typhimurium	14028	50 – 100	Good	42±1°C	24-48 Hours
Salmonella enteritidis	13076	10 – 100	Good	42±1°C	24-48 Hours
Staphylococcus aureus	25923	50 - 100	Inhibited	42±1°C	24-48 Hours

PACKAGING:
In pack size of 100 ml X 25 bottles.

STORAGE
On receipt, store bottles in the dark at 10–25 °C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Bottled media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for the recommended incubation times. Allow the medium to warm to room temperature before inoculation

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

REFERENCES
1. The United States Pharmacopoeia. Amended Chapters 61, 62 & 111, The United States Pharmacopoeial Convention Inc., Rockville, MD. (2009).
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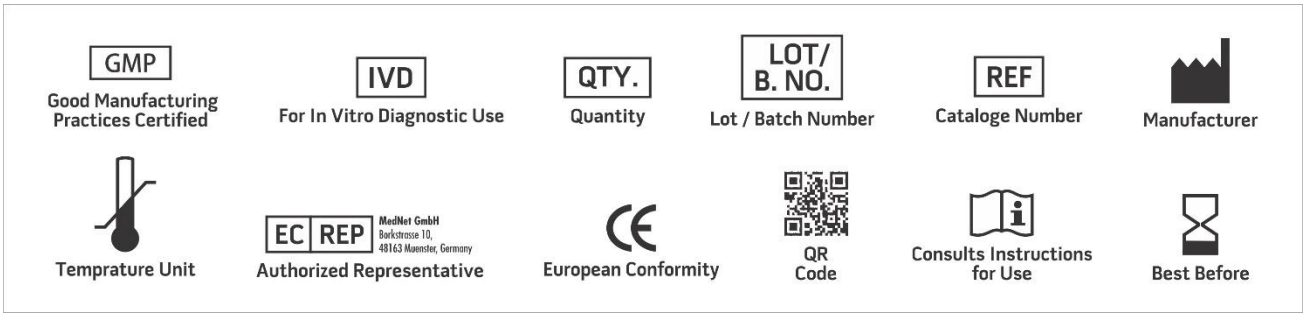
4. Rappaport, F., N. Konforti, and B. Navon. A new enrichment medium for certain salmonellae. J. Clin. Pathol. 9:261-266. (1956).
5. Vassiliadis, P., D. Trichopoulos, A. Kalandidi, and E. Xirouchaki. Isolation of salmonellae from sewage with a new procedure of enrichment. J. Appl. Bacteriol. 44:233-239. (1978).
6. VanSchothorst, M. and A. M. Renaud. J. Appl. Bact. 54:209-215. (1983).
7. McGibbon, L., E. Quail, and C. R. Fricker. Inter. J. Food Microbiol. 1:171-177. (1984).



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

***For Lab Use Only**
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