

RAPPAPORT VASSILIADIS BROTH (EUROPEAN PHARMACOPEIA)

CAT N°: 1414

Enrichment medium for *Salmonella*

FORMULA IN g/l

Magnesium Chloride Anhydrous *	13.58	Monopotassium Phosphate	0.60
Sodium Chloride	8.00	Dipotassium Phosphate	0.40
Soy Peptone	4.50	Malachite Green	0.036

* Equivalent to 29.0 g/L Magnesium Chloride Hexahydrate

Final pH 5.2 ± 0.2 at 25°C

PREPARATION

Suspend 27.11 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 115°C for 15 minutes. The prepared medium should be stored at 2-8°C. DO NOT OVERHEAT. The color is blue.

The dehydrated medium should be homogeneous, free-flowing and blue-greenish in color. If there are any physical changes, discard the medium.

USES

RAPPAPORT VASSILIADIS BROTH is recommended as the selective enrichment medium when isolating *Salmonella* species from food and environmental specimens. It can also be used to isolate *Salmonella* from human feces without preenrichment but the inoculum must be small.

This enrichment medium for *Salmonella* is recommended by the European Pharmacopoeia in Paragraph 2.6.13 "Microbiological examination of non-sterile products: test for specified microorganisms".

After preenrichment with Trypticasein Soy Broth (TSB), transfer 0.1 ml to 10 ml of Rappaport Vassiliadis Broth and incubate at 30-35°C for 18-24 hours. Subcultivate in plates of XLD Agar (Cat. 1080) (according to PHE) and incubate at 30-35°C for 18-48 hours.

Interpretation:

The possible presence of *Salmonella* is indicated by the growth of well developed, red colonies with or without black centers. These results can be confirmed with Identification Tests.

The product complies with the test if colonies of the types described are not present, or if the confirmatory identification tests are negative.

This medium has been found to be superior to other *Salmonella* selective enrichment media, especially when small inocula and a preenrichment broth are used

MICROBIOLOGICAL TEST

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 30-35°C and observed after 18-24 hours.

Microorganisms	Growth
<i>Escherichia coli</i> ATCC 25922 (conc. 99%)	< 5%

Salmonella typhimurium ATCC 14028 (conc 1%)

> 95%

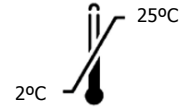
BIBLIOGRAPHY

European Pharmacopeia 7.0



STORAGE

Once opened keep powdered medium closed to avoid hydration.



2°C