



Product: Novobiocin Selective Supplement 20 mg

| Specification | | | |
|---|---|-------------------------|--------------------|
| Sterile selective supplement used for Salmone | <i>la</i> enrichment . | | |
| Presentation | | | |
| 10 Freeze dried vials Vial with: 3 ± 0.1 g | Packaging Details 23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box. | Shelf Life 49 months | Storage 2-25 °C |
| Composition | | | |
| Composition (g/vial) Novobiocin0. | NOTE : Each vial is sufficient to supplement 1L of RVSM | | |
| Reconstitute the original freeze-dried vial by adding : Sterile Distilled Water | 3 ml | | |

Description /Technique

Description:

The Novobiocin is used in different culture media like Tetrahionate Broth (Eur. Pahrm.) or Rappaport-Vassiliadis, in order to isolate *Salmonellas spp.* enhancing the inhibition of Gram-positive microorganism.

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Reconstitute the vial with 6 ml of sterile diluent, pre-warmed to aprox. 37°C and add to 500 ml of Tetrathionate broth base cooled to room temperature.

Note: for Rappaport-Vassiliadis Medium add 1 vial / L medium.

For Salmonella enrichment - Use Tetrathionate broth Immediately before inoculation, supplement tubes or flask to get the following concentrations: Iodine solution.....4 g / I and Potassium iodide solution.....5 g / I

Incubate the tubes tightly closed aerobically at 42+/-2°C for 24h. (Incubation times, temperature and sample volumes may vary depending on the sample, on the specifications,...)

Read the turbity (growth indicator) and inoculate any confirmatory, secondary medium by streaking methodology or by spiral method, like XLD, BPLS,... to confirm results after proper incubation, enumerate all the colonies that have appeared onto the surface of the secondary agar.

Presumptive isolation / recovery of Salmonella must be confirmed by further microbiological and biochemical tests. Each laboratory must evaluate the results according to their specifications.



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Quality control

Physical/Chemical control

Color : White-Gray

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Add 1 vial to 1L of medium base. DO NOT HEAT once supplemented.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Distribute the complete medium, cooled to 50 °C, into 90 mm plates

Incubate according instructions for complete medium indicated in COMPOSITION.

| Microorganism | Growth | |
|--|-----------|--|
| Salmonella enterica ATCC® 13076, WDCM 00030 | Good | |
| Salmonella typhimurium ATCC® 14028, WDCM 00031 | Good | |
| Enterococcus faecalis ATCC® 19433, WDCM 00009 | Inhibited | |

Sterility control

Study 5 vials - Reconstitute and dissolve each one in 100 ml of TSA + neutralizers - Pour into 90 mm plates. Incubation 24h at 30-35 °C and 72 h at 20-25 °C: NO GROWTH.

Bibliography

• EUROPEAN PHARMACOPOEIA (2005) 5th ed. § 2.6.13. Microbiological Examination of Non-Sterile Products (Test for Specified Microorganisms). EDQM. Council of Europe. Strasbourg.

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· HOLBROOCK, R., J.M. ANDERSON, A.C. BAIRD-PARKER, L.M. DODDS, D. SAWHNEY, S.H. STRUCHBURY & D. SWAINE (1989) Rapid detection of Salmonella in food: A convenient two-day procedure. Lett. Appl. Microbiol. 8:139-142.

· ISO Standard 6579-1 (2017) Microbiology of food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* - Part 1 : Detection of *Salmonella spp.*