

Specification

Sterile selective supplement for the isolation of *Pseudomonas spp.* according to ISO.

Presentation

10 Freeze dried vials

Packaging Details

23x60 mm glass vials, tag labelled, white plastic cap - 10 vials per box.

Shelf Life

49 months

Storage

2-25 °C

with: 9 ± 0.1 g

Composition

Composition (g/vial)

Cetrimide..... 0.005

Fucidin..... 0.005

Cephalothin sodium salt..... 0.025

Note: Each vial is sufficient to supplement 500 ml of medium Base for *Pseudomonas spp.*

Reconstitute the original freeze-dried vial

by adding:

Sterile distilled water..... 9 ml

Description /Technique

Description:

CFC selective supplement is added to Pseudomonas Agar Base in order to obtain a complete medium suitable for the isolation of *Pseudomonas spp.*

Pseudomonas CFC Agar is a selective medium recommended by ISO for the enumeration of *Pseudomonas spp.* in meat and meat products, including poultry.

Gelatin peptone and enzymatic digest of casein provide nitrogen, vitamins, minerals and amino acids essential for growth and permits the growth of a great number of *Pseudomonas spp.* The potassium sulfate and magnesium chloride help the formation of pigmentation (pyocyanin). The addition of cetrimide, fucidin and cephaloridine make the medium more selective for *Pseudomonas spp.* including *Burkholderia cepacia*.

Cetrimide, fucidin and cephalothin inhibit Gram positive bacteria and support the growth of *Pseudomonas spp.* (including *P. aeruginosa*), whilst inhibiting most other Gram negative bacteria.

Technique:

Reconstitute the vial with 9 ml sterile diluent in aseptic conditions and add it to 500 ml of Pseudomonas Agar Base (ISO) cooled to 50 °C. Pour into MF plates.

Do not overheat once supplemented.

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

Incubate the plates right side up aerobically at 21 ± 3 °C for 44 ± 1 h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications,...)

After incubation, enumerate all the colonies that have appeared onto the surface of the agar.

Each laboratory must evaluate the results according to their specifications.

Presumptive isolation of *Pseudomonas spp.* must be confirmed by further microbiological or biochemical tests.

Colonies which show a positive oxidase reaction are *Pseudomonas spp.*

Quality control**Physical/Chemical control**

Color : White

pH: at 25°C

Microbiological control

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

Distribute the complete medium, cooled at 50°C, in filtration plates

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

Microbiological control according to ISO 11133:2014/A1:2018.

Aerobiosis. Incubation at 25 °C ± 1, reading at 44 ± 4h

Microorganism*Escherichia coli* ATCC® 8739, WDCM 00012*Ps. fluorescens* ATCC® 13525*Pseudomonas fragi* ATCC® 4973, WDCM 00116**Growth**

Inhibited

Good (≥50 %)

Good (≥50 %)

Sterility Control

Add 5mL of the sample to 100 mL of TSB and to 100 mL Thioglycollate.

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Bibliography

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