ALLIANCE BIO EXPERTISE

**Reference:** DSHB3020 **A.B.E. - Technical Data Sheet**

**Product:** **CFC SELECTIVE SUPPLEMENT**

## Specification

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

## Presentation

| | Packaging Details | Shelf Life | Storage |
|---|---|---|---|
| 10 Freeze dried vials<br><br>with: 3 ± 0.1 g | 22±0.25 x 55±0.5 mm glass vials, tag labelled, white plastic cap - 10 vials per box. | 49 months | 2-25 ºC |

## Composition

Compositon (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.....6 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 6 ml sterile diluent in aseptic conditions and add it to 500 ml of Pseudomonas Agar Base (ISO) cooled to 50 ºC. 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 ºC 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

### Microbiological control

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.
Microbiological control according to ISO 11133:2014/A1:2018.

Aaerobiosis. Incubation at 25 ºC ± 1, reading at 44 ± 4h

| Microorganism | Growth |
|---|---|
| *Escherichia coli ATCC® 8739, WDCM 00012* | Inhibited |
| *Ps. fluorescens ATCC®13525, WDCM 00115* | Good ( ≥ 50 %) |
| *Pseudomonas fragi ATCC® 4973, WDCM 00116* | Good ( ≥ 50 %) |

### Sterility control

Add 5 ml of the sample to:
100 ml TSB and 100 ml Thioglycollate.
Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.

## Bibliography

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