

PSEUDOMONAS C.F.C. SUPPLEMENT*For microbiological control only*Selective supplement for the enumerated of *Pseudomonas* spp. in meat and meat products.**SUMMARY AND EXPLANATION**

The selective PSEUDOMONEAS C.F.C. Supplement (C.F.C. selective supplement) is added to the Pseudomonas C.F.C. AGAR BASE.

PRINCIPLE

The latter is a modification of the King A medium, in which magnesium chloride and potassium sulfate are present to favour the production of pigment by the *Pseudomonas*.

Mead and Adams demonstrated that adding 10 mg/l of Cetrimide, which inhibits yeasts growth, would permit the growth of psychrophile *Pseudomonas*, whether pigmented or not.

Adding Cefaloridine (50 mg/l) and Fucidine (10mg/l), respectively inhibitors of the growth of *Enterobacteria*, Staphylococci and Streptococci and species of *Acinetobacter* and *Moraxella*, results in a medium that is more specific for the isolation of *Pseudomonas* in food (particularly in meat and meat products).

CONTENT OF THE KIT**Lyophilized supplement**REF AEB184018/10⁽ⁱ⁾ 10 q.s.p. 500 ml**COMPOSITION****Theoretical formula per unit**

This medium can be adjusted and/or supplemented according to the performance criteria required:

Cetrimide ⁽ⁱ⁾	5 mg
Cefaloridine ⁽ⁱ⁾	25 mg
Fucidine ⁽ⁱ⁾	10 mg

(i) SIGNAL WORD : DANGER

H315 / H318 / H334 / H400

P260 / P264 / P273 / P280 / P302+P352 / P305+P351+P338 / P332+P313 / P501

Hazard statement:

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 : Very toxic to aquatic life.

Precautionary statement:

P260 : Do not breathe dust/fume/gas/mist/vapours/spray.

P264 : Wash hands thoroughly after handling

P273 : Avoid release to the environment.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 : IF ON SKIN: Wash with plenty of water.

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 : If skin irritation: Get medical advice/attention.

P501 : Dispose of contents/container according to local/regional/national/international/ regulations.

For further information, refer to the Material Safety Data Sheet.

REAGENTS AND MATERIEL REQUIRED BUT NOT PROVIDED**Material**

- Bacteriology incubator
- Water baths
- Aseptic or sterile Petri Plates

Reagents

- Base Pseudomonas C.F.C. (Ref. AEB620266/ Ref.AEB620267)
- Kligler

WARNINGS AND PRECAUTIONS

- **For microbiological control only.**
- **For professional use only.**
- All specimens, microbial cultures and inoculated products should be considered infectious and handled appropriately. Aseptic technique and usual precautions for handling the bacterial group studied should be observed throughout this procedure. Refer to "CLSI[®] M29-A, *Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Current Revision*". For additional information on handling precautions, refer to "Biosafety in Microbiological and Biomedical Laboratories – CDC/NIH – Latest edition", or the current regulations in the country of use.
- Do not use reagents past the expiry date.
- Do not use reagents if the packaging is damaged.
- Do not use bottles which show signs of contamination.
- Before use, make sure the tamper-proof seal on the bottle screw caps is intact
- The medium must be used according to the procedure indicated in this package insert. Any change or modification in the procedure may affect the results.

STORAGE CONDITIONS

- **Store the supplements at 2-8°C in their box until the expiry date.**
- Once rehydrated the CFC supplement can be kept for 7 days (maximum) at 2-8°C.

SPECIMENS

Follow the recommendations in the current standards to perform specimen collection and preparation.

INSTRUCTIONS FOR USE

1. **Allow the bottles to come to room temperature.**
2. Loosen the cap on the container of agar.
3. Place the bottle of agar in a water bath equipped with a security system set at approximately 50°C. Increase the temperature to 100°C and leave the agar to melt (approximately 20-30 minutes).
4. Screw the cap back on (wear protective gloves to avoid thermal shock) and then mix.
5. Leave the bottles at room temperature for at least 15 seconds before transferring them to a thermostatically controlled water bath set at 44-47°C.
6. Regenerated one vial of C.F.C selective supplement with 2 ml of purified water
7. Aseptically add to 500ml of agar base: one vial of C.F.C. selective supplement,

8. Place 1 ml of product to be tested and its decimal dilutions in sterile Petri plates.
9. Pour 15 ml of complete medium into each plate, then carefully mix the inoculum with the culture medium and allow to solidify.
10. Incubate the prepared plates at $(25\pm 1)^{\circ}\text{C}$ for (48 ± 2) hours, then for another (24 ± 2) hours if the colonies have not sufficiently developed.

READING AND INTERPRETATION

Number the plates that do not contain more than 300 colonies, with one plate containing at least 15 colonies.

NOTES

From the plates used for the actual enumeration, select 3 colonies and submit them for confirmation tests by isolation on nutritive agar, oxydase test and inoculation on Kligler-Hajna gelose.

Those that show a positive reaction to oxydase and which have been inoculated in a Kligler-Hajna medium but show only surface development (aerobic) will be considered to be *Pseudomonas* colonies.

QUALITY CONTROL

PSEUDOMONAS C.F.C. supplement has been designed and developed to meet the strictest quality requirements. The results obtained using strains tested during controls for bacteriological activity are shown on the quality control certificate for each batch, available from our website (www.biomerieux.com).

WASTE DISPOSAL








Unused reagents must be disposed of following procedures for hazardous chemical waste. Dispose of all used reagents as well as any other contaminated disposable materials following procedures for infectious or potentially infectious products.

It is the responsibility of each laboratory to handle waste and effluents produced according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.

LITERATURE REFERENCES

1. Mead G.C. and B.W. Adams, 1977. A Selective Medium for the Rapid Isolation of Pseudomonads associated with Poultry Meat Spoilage. Br. Poultr. Sci., **18**:661-670.
2. AFNOR V04-504 – Viandes et produits à base de viande - Dénombrement des *Pseudomonas*. 2006

INDEX OF SYMBOLS

Symbol	Meaning
	Catalogue number
	Manufacturer
	Temperature limit
	Use by date
	Batch code
	Consult Instructions for Use
	Date of manufacture

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