

## TM 2024 – CFC AGAR BASE (CEPHALOTHIN-SODIUM FUSIDATE- CETRIMIDE AGAR)

### INTENDED USE

for selective isolation of *Pseudomonas* species.

### PRODUCT SUMMARY AND EXPLANATION

CFC Broth Base is prepared according to ISO which contains magnesium chloride and potassium sulphate to enhance pigment production. The medium base is supplemented with CFC Supplement for the isolation and enumeration of *Pseudomonas* spp from meat products, after incubation at 25°C for 48 hours.

Goto and Enomoto formulated CetriNix supplement for the selective isolation of *Pseudomonas aeruginosa* from clinical specimens. Lowbury and Collins studied cetrinix as a selective agent. CetriNix supplement suppresses *Klebsiella*, *Proteus* and *Providencia* species. Modified CFC Selective Supplement was formulated as per the recommendations of ISO for selective isolation of *Pseudomonas* species. It contains cephalothin, sodium fusidate and cetrinix to improve the selective action. This combination of supplement gave more specific medium to isolate *Pseudomonas* species from chilled foods and processing plants.

### COMPOSITION

Ingredients	Gms / Ltr
Enzymatic digest of gelatin	16.000
Enzymatic digest of casein	10.000
Potassium sulphate	10.000
Magnesium chloride	1.400

### PRINCIPLE

The medium consists of enzymatic digest of gelatin and casein which serves as a source of carbon, nitrogen and essential nutrients. Magnesium chloride provide ions in the medium.

### INSTRUCTION FOR USE

- Dissolve 37.4 grams in 1000 ml distilled water.
- Heat if necessary to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 50°C and aseptically add sterile rehydrated contents of two vials of Modified CFC Selective Supplement.
- Mix well and dispense as desired.

### QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Light yellow to light grey homogeneous free flowing powder.  
**Appearance of prepared medium** : Yellow coloured clear to slightly opalescent in tubes.  
**pH (at 25°C)** : 7.2 ± 0.2

### INTERPRETATION

Cultural characteristics observed with added Modified CFC Selective Supplement, after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation temperature	Incubation Period
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good- luxuriant	25°C	48 Hours
<i>Pseudomonas aeruginosa</i>	9027	50-100	Good- luxuriant	25°C	48 Hours
<i>Escherichia coli</i>	25922	>=10 <sup>3</sup>	Inhibited	25°C	48 Hours

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. Meat and meat products. Enumeration of presumptive *Pseudomonas* spp., BS EN ISO 13720:2010
2. Goto S. and Entomoto S., 1970, Jap. J. Microbiol., 14:65. 3. Lowbury E.J. and Collins A.G., 1955, Clin. Path., 8:47.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative	 CE European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.  
\*For Lab Use Only

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