

CFC Broth Base

M1957

CFC Broth Base (Cephalothin-Sodium Fusidate-Cetrimide Agar) is recommended for selective isolation of *Pseudomonas* species.

Composition**

Ingredients

	Gms / Litre
Enzymatic digest of gelatin	16.000
Enzymatic digest of casein	10.000
Potassium sulphate	10.000
Magnesium chloride	1.400
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 37.4 grams in 1000 ml distilled water. Heat if necessary to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile rehydrated contents of two vials of Modified CFC Selective Supplement (FD281). Mix well and dispense as desired.

Principle And Interpretation

CFC Broth Base is prepared according to ISO (1) 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 (2) formulated CetriNix supplement for the selective isolation of *Pseudomonas aeruginosa* from clinical specimens. Lowbury and Collins (3) studied cetrimide as a selective agent. CetriNix supplement suppresses *Klebsiella*, *Proteus* and *Providencia* species.

Modified CFC Selective Supplement was formulated as per the recommendations of ISO (1) for selective isolation of *Pseudomonas* species. It contains cephalothin, sodium fusidate and cetrimide to improve the selective action. This combination of supplement gave more specific medium to isolate *Pseudomonas* species from chilled foods and processing plants.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent in tubes

Reaction

Reaction of 3.74% w/v aqueous solution at 25°C. pH : 7.2±0.2

Cultural Response

Cultural characteristics observed with added Modified CFC Selective Supplement (FD281), after an incubation at 25°C for 48 hours.

Cultural Response

Organism	Growth	Inoculum (CFU)
Cultural Response		
<i>Pseudomonas aeruginosa</i>	luxuriant	50-100
ATCC 27853		

<i>Pseudomonas aeruginosa</i>	luxuriant	$\geq 10^3$
ATCC 9027		
<i>Escherichia coli</i> ATCC 25922	inhibited	$\geq 10^3$
<i>Staphylococcus aureus</i> ATCC 25923	inhibited	$\geq 10^3$

Storage and Shelf Life

Store below 30°C and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

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.

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