

Technical Data

CFC Agar Base (Cephalothin-Sodium Fusidate-Cetrimide

M1848

Agar)

Intended use

CFC Agar Base (Cephalothin-Sodium Fusidate-Cetrimide Agar) is recommended for selective isolation of *Pseudomonas* species. The composition and performance of this medium are as per the specification laid down in ISO 13720:2010

Composition**	
Ingredients	Gms / Litre
Gelatin peptone#	16.000
Casitose ##	10.000
Potassium sulphate	10.000
Magnesium chloride	1.400
Agar	15.000
Final pH (at 25°C)	7.2±0.2
**Formula adjusted standardized to suit performance peremeters	

**Formula adjusted, standardized to suit performance parameters

Enzymatic digest of gelatin

Enzymatic digest of casein

Directions

Suspend 52.4 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at

15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add sterile rehydrated contents of two vials of Modified CFC Selective Supplement (FD281). Mix well and pour into sterile Petri plates.

Note : Do not keep the molten agar for longer than 4 hours.

Principle And Interpretation

CFC Agar Base is prepared according to ISO (1) which contains magnesium chloride and potassium sulphate to enhance pigment production. It is recommended for enumeration of *Pseudomonas* species from meat and meat products including poultry by means of colony count technique 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.

Type of specimen

Food samples

Specimen Collection and Handling

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidleines should be followed while handling clincal specimens. Saftey guidelines may be referred in individual safety data sheets

Please refer disclaimer Overleaf.

Limitations :

Further biochemical tests are needed for final identification of the isolated organisms.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

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 gel forms in Petri plates

Reaction

Reaction of 5.24% w/v aqueous solution at 25°C. pH : 7.2±0.2

pН

7.00-7.40

Cultural Response

M1848: Cultural characteristics observed with added Modified CFC Selective Supplement (FD281), after an incubation at 24-26°C for 40-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
Pseudomonas aeruginosa ATCC 27853 (00025)*	50 -100	luxuriant	>=50 %
Pseudomonas fluorescens ATCC 13525 (00115)*	50 -100	luxuriant	>=50 %
Pseudomonas fragi ATCC 4973 (00116)*	50 -100	luxuriant	>=50 %
Staphylococcus aureus ATCC 25923 (00034)*	>=103	inhibited	0%
Proteus vulgaris ATCC 13315	>=10 ³	inhibited	0%
Escherichia coli ATCC 25922 (00013)*	>=103	inhibited	0%
<i>Escherichia coli ATCC</i> 8739 (00012)*	>=10 ³	inhibited	0%

Key: * - Corresponding WDCM numbers

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle inorder to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (5, 6).

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.
- 4. Downes F. P. and Ito K., (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., American Public Health Association, Washington, D.C.
- 5. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
- Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) 6. Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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Disclaimer :

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