

TM 2023 – CFC AGAR BASE (CEPHALOTHIN-SODIUM FUSIDATE- CETRIMIDE AGAR)

INTENDED USE

For selective isolation of *Pseudomonas* species.

PRODUCT SUMMARY AND EXPLANATION

CFC agar base 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 formulated CetriNix supplement for the selective isolation of *Pseudomonas aeruginosa* from clinical specimens. Lowbury and Collins studied cetrinide 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 cetrinide.

COMPOSITION

Ingredients	Gms / Ltr
Digest of gelatin	16.000
Digest of casein	10.000
Potassium sulphate	10.000
Magnesium chloride	1.400
Agar	15.000

PRINCIPLE

CFC Agar Base contains magnesium chloride and potassium sulphate to enhance pigment production. Agar present acts as a solidifying agent.

INSTRUCTION FOR USE

- Dissolve 52.4 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi 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.
- Mix well and pour into sterile Petri plates.

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

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.2±0.2

INTERPRETATION

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



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Pseudomonas aeruginosa</i>	27853	50 -100	Luxuriant	>=70 %	24-26°C	40-48 Hours
<i>Pseudomonas fluorescens</i>	13525	50 -100	Luxuriant	>=70 %	24-26°C	40-48 Hours
<i>Pseudomonas fragi</i>	4973	50 -100	Luxuriant	>=70 %	24-26°C	40-48 Hours
<i>Staphylococcus aureus subsp. aureus</i>	25923	>=10 ³	Inhibited	0%	24-26°C	40-48 Hours
<i>Proteus vulgaris</i>	13315	>=10 ³	Inhibited	0%	24-26°C	40-48 Hours
<i>Escherichia coli</i>	25922	>=10 ³	Inhibited	0%	24-26°C	40-48 Hours
<i>Escherichia coli</i>	8739	>=10 ³	Inhibited	0%	24-26°C	40-48 Hours

PACKAGING:

In pack size of 100 gm and 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. Goto S. and Entomoto S., 1970, Jap. J. Microbiol., 14:65
2. Lowbury E.J. and Collins A.G., 1955, Clin. Path., 8:47
3. Meat and meat products. Enumeration of presumptive *Pseudomonas* spp., BS EN ISO 13720:2010



 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 <small>MedNet GmbH Buckstrasse 10 48163 Muenster, Germany</small>	 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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