

CM 20404 – 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 cetrимide 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 cetrимide 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 provides 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 hydrated contents of soft 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
Pseudomonas aeruginosa	27853	50-100	Good- luxuriant	25°C	48 Hours
Pseudomonas aeruginosa	9027	50-100	Good- luxuriant	25°C	48 Hours
Escherichia coli	25922	>=10 ³	Inhibited	25°C	48 Hours

PACKAGING:

Inpacksizeof500 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.

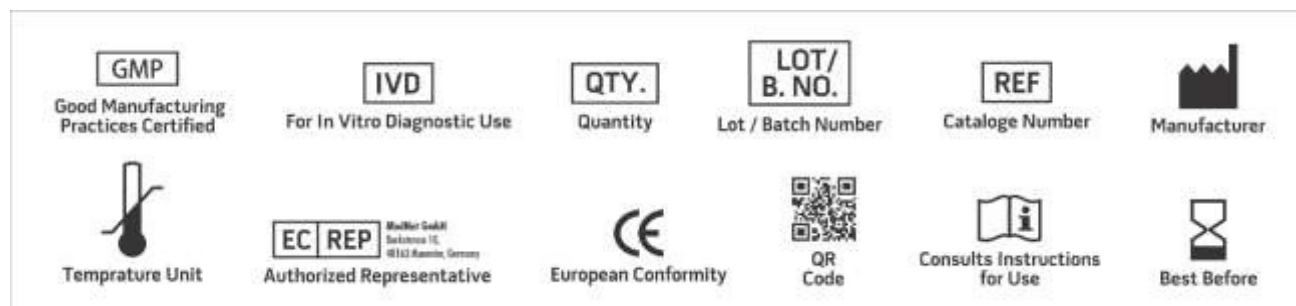
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Meat andmeatproducts. 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.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*ForLabUseOnly



