



CFC Agar Base (Cephalothin-Sodium Fusidate-Cetrimide Agar)

M1848

Intended use

CFC Agar Base (Cephalothin-Sodium Fusidate-Cetrimide Agar) is recommended for selective isolation of "*Rugwfqo qpcu*" species.

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 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 "*Rugwfqo qpcu*" 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 "*Rugwfqo qpcu*" *cgtwikipquc* from clinical specimens. Lowbury and Collins (3) studied cetrimide as a selective agent. CetriNix supplement suppresses "*Mngduk gmc*", "*Rtqvgwu*" and "*Rtqxkfgpek*" species.

Modified CFC Selective Supplement was formulated as per the recommendations of ISO (1) for selective isolation of "*Rugwfqo qpcu*" species. It contains cephalothin, sodium fusidate and cetrimide.

Type of specimen

Clinical samples - Blood ; Food and dairy samples ; Water samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5).

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (1,2,8).

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards.(3)

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 guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets

Limitations :

This medium is general purpose medium and may not support the growth of fastidious 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

pH

7.00-7.40

Cultural Response

M1848: Cultural characteristics observed with added Modified CFC Selective Supplement (FD281), after an incubation at 25°C for 48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Rugwfqo qpcu"cgtwikpquc"</i> CVEE"49;75"(00025)*	50 -100	luxuriant	>=50 %
<i>Rugwfqo qpcu"fluorescens"</i> CVEE"13525 (00115)*	50 -100	luxuriant	>=50 %
<i>Rugwfqo qpcu"fragi CVEE"</i> 4973 (00116)*	50 -100	luxuriant	>=50 %
<i>Uvcrjfnqe qeeuw"cw t g w u"</i> CVEE"47;45"(00034)*	>=10 ³	inhibited	0%
<i>Rtqvgwu"xwmi ctku" CVEE"</i> 35537	>=10 ³	inhibited	0%
<i>Guejgtkejkc"eqnk" CVEE"</i> 47;44"(00013)*	>=10 ³	inhibited	0%
<i>Guejgtkejkc"eqnk" CVEE"</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 in order 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 (4,5).

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.

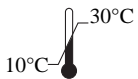
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In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Pvt. Limited,
B /4-6 , MIDC, Dindori, Nashik MH

www.himedialabs.com



CE Partner 4U ,Esdoornlaan 13, 3951
DB Maarn The Netherlands,

www.cepartner4u.eu

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