HiCrome Acinetobacter Agar Base

M1938

Intended Use

Recommended for selective isolation of *Acinetobacter* species from environmental and clinical samples.

Composition**

Ingredients	Gms / Litre
Peptone special	9.000
Sodium chloride	5.000
Selective mix	0.500
Chromogenic mixture	1.350
Agar	15.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 30.85 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and add the rehydrated contents of two vials of MDR Selective Supplement (FD271) or two vials of Leeds Acinetobacter Selective Supplement (FD335). Mix well and pour into sterile Petri plates.

Principle And Interpretation

Acinetobacter species are gram negative bacteria ubiquitous bacteria that have been isolated from patients with nosocomial infection, environment, soil, and water. *Acinetobacter* is mostly found in every type of infections (3). There is an alarming situation as *Acinetobacter baumannii* is found to be resistant to most commonly used antibiotics which includes beta-lactams and aminoglycosides (2,3). Immunocompromised patients requiring mechanical respirations are at more risk of infection by *Acinetobacter* species.(1)

Peptone special provides nitrogeneous, carbonaceous compounds, amino acids, vitamins and other growth factors essential to the organism. Sodium chloride maintains the osmotic balance. Selective mix inhibits gram positive organisms. The chromogenic mixture in the medium allows the differentiation of *Acinetobacter* species from other organisms.

Type of specimen

Clinical samples - Blood , Isolated bacteria

Specimen Collection and Handling:

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

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

Limitations :

Due to variable nutritional requirements, some strains show poor growth on this medium.

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

Light yellow to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Yellow to light purple coloured clear to slightly opalescent gel forms in petriplate.

Reaction

Reaction of 3.09% w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.8-7.2

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Organism	Inoculum (CFU)	Growth	Observed Lot value (CFU) with FD271	Recovery with TFD271	Colour of colony
Acinetobacter baumannii ATCC BAA-1605	50 -100	luxuriant	25 -100	>=50 %	Light purple with halo
Acinetobacter baumannii ATCC BAA-747	>=10^3	inhibited	0	0 %	-
Acinetobacter baumannii ATCC 19606	>=10^3	inhibited	0	0 %	-
Acinetobacter lwofii ATCC 15309	>=10^3	inhibited	0	0 %	-
Acinetobacter haemolyticus ATCC 19002	>=10^3	inhibited	0	0 %	-
Escherichia coli ATCC 25922 (00013)*	>=10^3	inhibited	0	0 %	-
Enterococcus faecalis ATCC 29212 (00087)*	>=10^3	inhibited	0	0 %	-

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store dehydrated powder and the prepared medium at 2-8º C in tightly closed container . 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 (4,5).

Reference

1.Bergogne- Berezin, E., m. L. Joly-Guillou, and J.F. Vieu. 1987. Epidemiology of nosocomial infections due to Acinetobacter calcoaceticus . J. Hosp. Infect. 10:105-113

2.Montefour, K., et.al.2008. Acinetobacter baumanni : An EmergingMultidrug Resistant pathogen in critical care Nurse; 28:15-25

3.Valentine, S.C., et.al. 2008 Phenotypic and molecular characterization of Acinetobacter baumanni. Clinical isolates from nosocomial outbreaks in Los Angeles Country, California. J.Clin. Microbiology.; 46:2499-2507

4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.

5. Jorgensen,J.H., Pfaller , M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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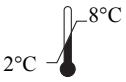
IVD — In vitro diagnostic medical device

CE Marking



Storage temperature

Do not use if package is damaged

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