



Arcobacter Selective Broth Base

M1894

Intended Use:

Recommended for enrichment & cultivation of *Arcobacter* species from clinical, food and environmental samples.

Composition**

Ingredients	g / L
Peptone	18.000
Sodium chloride	5.000
Yeast extract	1.000
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 24.0 grams in 1000 ml purified / distilled water. Heat if necessary 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 rehydrated contents of one vial of FACNT Selective Supplement (FD304) and add 5% w/v sterile lysed defibrinated horse blood. Mix well and dispense into sterile tubes.

Principle And Interpretation

Arcobacter selective isolation from food and environment samples, prior enrichment in *Arcobacter* selective isolation broth should be performed (1). *Arcobacter* are aerotolerant, *Campylobacter* - like organisms frequently isolated from cattle and pigs suffering from abortion and enteritis (2).

Only two of the four *Arcobacter* species have been associated with human infections. *A. butzleri* has been isolated from patients with bacteremia, endocarditis, peritonitis and diarrhoea (3,4). *A. cryaerophilus* group 1B has been isolated from patients with bacteremia and diarrhoea (5,6) although it is a much less common human isolate than *A. butzleri* (7).

Peptones and yeast extract provide essential growth nutrients for the growth of *Arcobacter* species. Sodium chloride maintains osmotic equilibrium in addition to providing essential ions for growth. Cefoperazone, amphotericin-B, 5-fluorouracil, novobiocin and trimethoprim are used as selective supplement (FD304) which eliminate the contaminating microflora.

Type of specimen

Clinical samples -stool samples; Food sample; Environmental samples

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (8,9).

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (10).

For environmental samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards(1).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic Use. For professional 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

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

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

Colour and Clarity of prepared medium

Basal Medium : Light yellow coloured clear solution. After addition of 5 %w/v sterile lysed defibrinated horse blood:Cherry red coloured opaque solution.

Reaction

pH of 2.4% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH

7.00-7.40

Cultural response

Cultural characteristics observed with added FACNT Selective Supplement, after an incubation at 28°C for 48 hours under micro-aerobic conditions.

Organism	Inoculum (CFU)	Growth
<i>Arcobacter butzleri</i> ATCC 12481	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	≥10 ⁴	Inhibited
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	≥10 ⁴	Inhibited
<i>Proteus mirabilis</i> ATCC 25933	≥10 ⁴	Inhibited

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. 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 (8,9).

Reference

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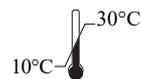
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**In vitro diagnostic
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Storage temperature



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