

Fastidious Anaerobe Broth (F.A.B.) (NCM0199)

Intended Use

Fastidious Anaerobe Broth is used for the growth fastidious anaerobes and is not intended for use in the diagnosis of disease or other conditions in humans.

Description

F.A.B. was developed by Neogen (formerly Lab M), working in conjunction with the microbiology department of a University of Manchester teaching hospital. The medium was designed to give optimum growth of fastidious anaerobes and has found applications as a blood culture medium and an enrichment broth for the isolation of anaerobes. The medium is very rich in nutrients from the specially selected peptone mixture. Vitamin K, hemin and L-cysteine are all growth factors required by some anaerobes. L-cysteine together with sodium thioglycolate reduce the Eh of the medium and the agar content inhibits absorption of oxygen and convection currents. Resazurin is a redox indicator. Several published evaluations show F.A.B. to be the liquid medium of choice for fastidious anaerobes.

Typical Formulation

Peptone Mixture	15.0 g/L
Yeast Extract	10.0 g/L
Sodium Thioglycollate	0.5 g/L
Sodium Chloride	2.5 g/L
Agar	0.75 g/L
L-Cysteine HCl	0.5 g/L
Resazurin	0.001 g/L
Sodium Bicarbonate	0.4 g/L
Hemin	0.005 g/L
Vitamin K	0.0005 g/L

Final pH: 7.2 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution

Refer to SDS

Preparation

1. Dissolve 29.7 grams of the medium in one liter of purified water.
2. Heat with frequent agitation to completely dissolve the medium. Boil to dissolve the agar and dispense into screw capped containers. Autoclave at 121°C for 15 minutes. Tighten the caps as soon as possible after autoclaving.

Test Procedure

If used as a blood culture medium a minimum dilution of 1:10 should be used. 37°C for 24-72 hours. Keep the container airtight.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing and pale yellow.

Prepared Appearance: Prepared medium is a clear, pale yellow, viscous liquid. It may have a narrow band of red/purple at the surface due to action of oxygen on the resazurin. If the medium is reddish this indicates too much oxygen has been absorbed, the medium should be reheated to deoxygenate. Do not reheat more than once.



Technical Specification Sheet



Minimum QC:

Bacteroides fragilis ATCC 25285

Results

Refer to appropriate references for results.

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

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