



## Anaerobic Blood Agar Base

M975A

### Intended Use:

Recommended for cultivation of anaerobic microorganisms, including very fastidious organisms from clinical specimens.

### Composition\*\*

Ingredients	Gms / Litre
Tryptone	15.000
Soya peptone	5.000
Yeast extract	5.000
Sodium chloride	5.000
L-Cysteine	0.500
Hemin	0.005
Agar	13.500
Final pH ( at 25°C)	7.4±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 44.0 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Add the rehydrated contents of 1 vial of Vitamin K1 solution (FD114). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C. Aseptically add 5% v/v sterile defibrinated sheep blood. Mix well and pour into sterile petri plates.

### Principle And Interpretation

Anaerobic Blood Agar base serves as a nutritious, nonselective medium allowing the cultivation of not only fastidious anaerobes but also of aerobic and microaerophilic microorganisms (1). It promotes both typical pigment formation in *Bacteroides melaninogenicus* and displays double haemolytic reaction in *Clostridium perfringens* with added blood to the medium base. The inner zone of haemolysis is due to toxin and the outer zone of incomplete haemolysis to toxin (lecithinase activity).

Tryptone, soya peptone and yeast extract in the medium provides carbon and nitrogenous source, long chain amino acids, vitamins and other essential nutrients. Presence of Hemin and Vitamin K1 supports the growth of typical fastidious bacteria like *Bacteroides* species and gram positive spore bearers like *Clostridium* species. Addition of blood provides nutrients and helps to differentiate haemolytic organisms. Sodium chloride helps in maintaining the osmotic equilibrium.

### Type of specimen

Clinical samples- stool, abscess

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precaution

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

### Limitation

1. Due to nutritional variations, certain strains may show poor growth.

### 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

Yellow to tan coloured homogeneous free flowing powder

### Colour and Clarity of prepared medium

Basal medium : Yellow coloured; with addition of 5% v/v sterile, defibrinated sheep blood : cherry red coloured

Basal medium : slightly opalescent; After addition of 5% v/v sterile, defibrinated sheep blood : opaque gel in petri plates

### Reaction

Reaction of 4.4% w/v aqueous solution at 25°C. pH : 7.4±0.2

### pH

7.20-7.60

### Cultural Response

Cultural characteristics observed after 24-48 hours at 35-37°C with 5-10% CO<sub>2</sub>

### Organism

### Growth

*Bacteroides fragilis* ATCC 25285 luxuriant

*Bacteroides melaninogenicus* ATCC 25611 luxuriant

*Peptostreptococcus anaerobius* ATCC 27337 luxuriant

## 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 (2,3).

## Reference

1. Dowell, Jr., V.R., Lombard, G.L., Thompson, F.S., Armfield, A.Y.: Media for isolation, characterization and identification of obligately anaerobic bacteria- US Department of Health and Human services, centers for Disease Control (1977).
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. 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.

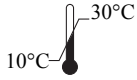
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In vitro diagnostic medical device



CE Marking



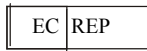
Storage temperature



Do not use if package is damaged



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