

BILE AESCULIN AZIDE BROTH

Ready to use tubes

INTENDED USE

Selective liquid medium with sodium azide for the isolation and differentiation of Group D streptococci

TYPICAL FORMULA (g/l)

Tryptone	17.00
Peptone	3.00
Yeast Extract	5.00
Oxgall	10.00
Sodium Chloride	5.00
Sodium Citrate	1.00
Aesculin	1.00
Fe-Ammonium Citrate	0.50
Sodium Azide	0.25

Final pH 7.1 ± 0.2

DESCRIPTION

Aesculin Bile Azide Broth is a selective and diagnostic medium for the detection of group D streptococci. These microorganisms grow in the presence of sodium azide and bile salts and are additionally capable of hydrolysing aesculin to glucose and aglycone 6-7 dihydroxycumarin: the aglycone reacts with the iron salts in the medium, giving them a black colouring.

TECHNIQUE

Inoculate the liquid medium with a culture taken from Todd Hewitt Broth or from selective media for Group D Streptococci.

Incubate at 35 or 37°C for 18-24 hours and observe for growth and blackening.

LIMITATIONS

Incubation should not be prolonged beyond 24 hours, because extensive blackening of the medium makes reading difficult.

The bile esculin test was originally used to identify the enterococci; however other Group D streptococci and occasionally non- Group D streptococci and other genera, *Aerococcus*, *Listeria* can tolerate the bile concentration and split esculin. The bile esculin test cannot be used to identify the enterococci, but a positive reaction can be used in combination with other tests to identify presumptively the Group D streptococci.

STORAGE

Store at 2-8° away from direct light - When stored as directed the tubed media remain stable until the expiry date shown on the label. Do not use beyond stated expiry date. Media should not be used if there are any signs of deterioration, discoloration or contamination.

PRECAUTIONS

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilize all biohazard waste before disposal.

REFERENCES

- Isenberg, H.D., Goldberg, D. & Sampson, J. (1970) Appl. Micro., **20**, 433-436.
- Jensen Bette, J. (1996) Lab.Med. **27**, 53
- NCCLS document M22-A2, 1996. Quality Assurance for Commercially prepared Microbiological Culture Media-2nd ed.; Approved Standard.
- Swan, A. (1954) J. Clin. Path, **7**, 160-163.
- Williams, R.E.O. & Hirsch, A. (1950). J. Hyg (Camb.), **48**, 504.

PACKAGING**5510141****Bile Aesculin Azide Broth, 20 ready to use slanted tubes**