

BILE AESCULIN BROTH

Selective medium for group D streptococci isolation in foods and pharmaceutical products.

TYPICAL FORMULA	(g/l)
Tryptone	17.0
Peptone	3.0
Yeast Extract	5.0
Oxgall	10.0
Sodium Chloride	5.0
Esculin	1.0
Ferric Ammonium Citrate	0.5
Sodium Azide	0.15
Final pH = 7.1 ± 0.2 at 25 °C.	

DIRECTIONS

Suspend 41.7 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Dispense into final tubes or vials, as needed. Sterilize in autoclave at 121 °C for 15 minutes.

DESCRIPTION

BILE AESCULIN BROTH is a selective medium for isolating group D streptococci in foods and pharmaceutical products.

TECHNIQUE

Inoculate the medium with the specimen using a sterile loop and incubate at 36 ± 1 °C for 18-24 hours. The group D streptococci hydrolyze esculin to glucose and esculetin which reacts with iron minerals present in the medium producing a blackening of the medium.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: greenish, light to medium beige.

Prepared medium

Appearance: slightly opalescent.

Color: greenish to medium amber.

Incubation conditions: 36 ± 1 °C for 24 hours.

Microorganism	ATCC	Growth	Characteristics
<i>Streptococcus faecalis</i>	19433	good	Esculin hydrolysis
<i>Streptococcus pyogenes</i>	27853	none	
<i>Staphylococcus aureus</i>	25923	none	
<i>Escherichia coli</i>	25922	none	

PERFORMANCE AND LIMITATIONS

Staphylococcus aureus and *Staphylococcus epidermidis* may exhibit growth in this medium but they will not show no action on esculin.

PRECAUTIONS

Bile Aesculin Broth contains sodium azide. This substance is harmful by inhalation and if swallowed, irritating to eyes, respiratory system and skin. Consult safety data sheet for further details. Sodium azide reacts with many metals, especially copper, to produce explosive metal azides.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared tubes at 2-8 °C.

REFERENCES

1. Isenberg, H.D., D. Goldberg, and J. Sampson. (1970). Appl. Micro., **20**, 433- 436.
2. ISO/FDIS 7899-2: 2000.
3. NCCLS document M22-A2, 1996. Approved Standard.



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PRESENTATION









Product	REF	
BILE AESCULIN BROTH (11.9 l)	610151	500 g
BILE AESCULIN BROTH (2.3 l)	620151	100 g

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	IVD <i>In Vitro</i> Diagnostic Medical Device
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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