



## Kanamycin Esculin Azide Broth Base

M776A

Kanamycin Esculin Azide Broth Base is recommended for isolation and identification of group D Streptococci in food stuffs (1).

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	20.000
Yeast extract	5.000
Sodium chloride	5.000
Sodium citrate	1.000
Esculin	1.000
Ferric ammonium citrate	0.500
Sodium azide	0.150
Final pH ( at 25°C)	7.0±0.2

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

### Directions

Suspend 16.32 grams in 500 ml 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 Kanamycin Sulphate Selective Supplement (FD146). Mix well and dispense as desired.

Warning : Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

### Principle And Interpretation

Kanamycin Esculin Azide Broth Base is recommended for isolation and identification of group D Streptococci in food stuffs (1).

Casein enzymic hydrolysate and yeast extract provide essential growth nutrients for enterococci. Sodium azide inhibits gram negative organisms. Kanamycin has inhibitory effect on other gram-positive bacteria. Streptococci hydrolyse esculin to esculetin and dextrose. Esculetin and ferric ammonium citrate forms dark brown to black complex imparting black colour to the broth.

### Quality Control

#### Appearance

Light yellow coloured homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Medium amber coloured clear solution without any precipitate.

#### Reaction

Reaction of 3.26% w/v aqueous solution at 25°C. pH : 7.0±0.2

#### pH

6.80-7.20

#### Cultural Response

M776A: Cultural characteristics observed after an incubation at 35-38°C for 18-24 hours.

Organism	Growth	Esculin hydrolysis
<i>Enterococcus bovis</i> (27960)	luxuriant	+
<i>Enterococcus faecium</i> ATCC 19434	luxuriant	+

*Escherichia coli* ATCC 25922 inhibited -

### Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8°C. Use before expiry date on the label.

### Reference

1. Mossel, D.A.A., Harrewijin, G.A and Elzebroek, Berdien, J.M (1973) UNICEF, Geneva.

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