

Technical Information

Kanamycin Esculin Azide Broth Base

Product Code: DM 1776A

Application: - Kanamycin Esculin Azide Broth Base is used 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

Principle & Interpretation

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

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

Methodology

Suspend 16.32 grams of dehydrated media in 500 ml distilled water. Mix thoroughly & 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 (MS1146). Shake 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.

Quality Control

Appearance

Light yellow coloured homogeneous free flowing powder

Colour and Clarity

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 Range

6.80-7.20

Cultural Response

DM1776A: Cultural characteristics observed after an incubation at 35-38°C for 18-24 hours.



Dehydrated Culture Media
Bases / Media Supplements

Organism	Growth	Esculin hydrolysis
<i>Enterococcus bovis</i> (27960)	luxuriant	+
<i>Enterococcus faecium</i> ATCC 19434	luxuriant	+
<i>Escherichia coli</i> ATCC 25922	inhibited	-

Storage and Shelf Life

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

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

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