

Kanamycin Aesculin Azide Agar (NCM0198)

Intended Use

Kanamycin Aesculin Azide Agar is a selective isolation and enumeration medium for enterococci (Lancefield group D streptococci) in food, and is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Sodium azide and kanamycin provide the selective inhibition required whilst aesculin and iron salts form an indicator system for the presumptive identification of enterococci. Incubation at 42°C will increase the medium's selectivity.

Typical Formulation

Tryptone	20.0 g/L
Yeast Extract	5.0 g/L
Sodium Chloride	5.0 g/L
Sodium Citrate	1.0 g/L
Aesculin	1.0 g/L
Ferric Ammonium Citrate	0.5 g/L
Sodium Azide	0.15 g/L
Kanamycin Sulphate	0.02 g/L
Agar	10.0 g/L

Final pH: 7.0 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution

Refer to SDS

Preparation

1. Suspend 43 grams of the medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.
4. Cool to 45-50°C.

Test Procedure

Surface, spread 0.1ml to 0.5ml over entire surface of plate. Incubation at 37°C or 42°C aerobically for 18-24 hours.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing and pale yellow.

Prepared Appearance: Prepared medium is a clear, pale yellow to green gel.

Minimum QC:

Enterococcus faecalis WDCM 00087

Escherichia coli (inhibition) WDCM 00013

Results

Count all white/grey colonies, approximately 2mm diameter, surrounded by a black halo to give presumptive enterococcus/fecal streptococcus count.



Technical Specification Sheet



Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. Mossel, D.A.A., Bijken, P.H.G., Eelderink, I. and van Spreekens, K.A. (1978). Streptococci, edited by Skinner, F. A. and Quesnel, L.B. SAB Symposium Series No. 7 Academic Press, London.

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