

KANAMYCIN AESCULIN AZIDE AGAR BASE KANAMYCIN SELECTIVE SUPPLEMENT

Medium base and selective supplement for the isolation of enterococci in foodstuffs

Typical formulas

Kanamycin Aesculin Azide Agar Base (g/l)

Tryptone	20.00
Yeast Extract	5.00
Sodium Chloride	5.00
Sodium Citrate	1.00
Aesculin	1.00
Fe-Ammonium Citrate	0.50
Sodium Azide	0.15
Agar	10.00

Kanamycin Selective Supplement (vial contents for 500 ml of medium)

Kanamycin Sulphate	10 mg
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Directions

Suspend 21.3g in 500 ml of cold distilled water. Heat to boiling with agitation, sterilise in the autoclave at 121°C for 15 minutes and cool to 50°C. Dissolve one vial of Kanamycin Selective Supplement (ref. n° 4240055) with 5ml of sterile distilled water and add to the medium base.

Final pH 7.0 ± 0.2

Description

Kanamycin Aesculin Azide Agar is prepared according to the typical formulation described by Mossel et al. It is recommended for the detection of enterococci in foodstuffs. The medium contains kanamycin sulphate and sodium azide as inhibitory compounds and an indicator system (aesculin, ferric ammonium citrate) to detect the aesculin-hydrolysing bacteria. The enterococci will grow on the medium with grey colonies surrounded by a brown-black zone.

Technique

1. Prepare tenfold dilutions of sample with peptone water
2. Within 3 hours from the sample preparation, spread 0.1ml of the inoculum onto the plates.
3. Incubate at 35°C or at 42°C for 18-24 hours (the higher incubation temperature increases the selectivity of the medium).
4. Consider the result positive for the enterococci when round, grey colonies, about 2mm in diameter surrounded by a brown-black zone are observed.

User quality assurance (37°C-24hrs)

Productivity control

E.faecium ATCC 19434: growth, grey or white colonies with black halo

E.bovis ATCC 27960: growth, grey or white colonies with black halo

Selectivity control :*E.coli* ATCC 25922: inhibited, *B.subtilis* ATCC 6633: inhibited

Storage

Dehydrated medium: 10-30°C

Selective Supplement: 2-8°C

User prepared plates: 7 days at 2-8°C

Reference

- Mossel, D.A.A., Bijker, P.G.H., Eelderink, I. (1978) Arch. Lebensmittel Hg. **29**, 121-127

Packaging

4015521	Kanamycin Aesculin Azide Agar Base,	100 g (2.3 l)
4015522	Kanamycin Aesculin Azide Agar Base,	500 (11.7 l)
4240055	Kanamycin Selective Supplement,	10 vials, each for 500 ml of medium