OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

KANAMYCIN AESCULIN AZIDE AGAR BASE CM0591

KANAMYCIN AESCULIN AZIDE AGAR BASE (OXOID) **CM0591**

Typical Formula*

Tryptone	grams per litre	20.0
Yeast extract		5.0
Sodium chloride		5.0
Sodium citrate		1.0
Aesculin		1.0
Ferric ammonium citrate		0.5
Sodium azide		0.15
Agar		10.0

*adjusted as required to meet performance standards

Directions

Suspend 21.3g in 500 ml of distilled water. Add 1 vial of Kanamycin Sulphate Supplement (SR0092E) reconstituted as directed. Bring gently to the boil. Sterilize by autoclaving at 121°C for 15 minutes. Mix gently and pour into sterile Petri dishes.

Physical Characteristics

Straw, free flowing powder
Moisture level - less than or equal to 7%
pH - 7.0 ± 0.2 at 25°C
Clarity - passes test
Gel strength - firm comparable to 10.0g/litre Agar

Bacteriological Tests Using Optimum Inoculum Dilution

Reactions after incubation at 37°C for 24 hours

Medium is challenged with 10-100 colony forming units.

Enterococcus faecalis	ATCC®29212	0.5-2mm black colonies, aesculin hydrolysis
Enterococcus faecalis	ATCC®19433	0.25-1mm black colonies, aesculin hydrolysis
Enterococcus faecium	ATCC®19434	0.5-2mm black colonies, aesculin hydrolysis
Streptococcus bovis	ATCC®27960	0.25-1mm black colonies, aesculin hydrolysis

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

KANAMYCIN AESCULIN AZIDE AGAR BASE CM0591

Medium is challenged with 10^4 to 10^5 colony forming units

Streptococcus pyogenes	ATCC®19615	No growth or pinpoint - 0.5mm colourless colonies
Escherichia coli	ATCC®25922	No growth
Bacillus subtilis	ATCC®6633	No growth

Medium is challenged with 10^4 to 10^5 colony forming units

Staphylococcus aureus	ATCC®25923	No growth or pinpoint-1mm straw colonies

Inhibited strains shall produce no growth or at least 4 Log (10) reduction when compared to the control medium.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological tests	*Staphylococcus aureus* test changed to a Log reduction	Change control	MOC-2024-1922