OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

ANTIBIOTIC MEDIUM No. 1 CM0327

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Typical Formula*

Peptone	grams per litre	6.0
Tryptone		4.0
Yeast extract		3.0
'Lab-Lemco' powder		1.5
Glucose		1.0
Agar		11.5

* adjusted as required to meet performance standards

Directions

Suspend 27g in 1 litre of distilled water and bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. If necessary, after sterilization, adjust the medium to pH 7.0 by adding approximately 0.3ml of 1M sodium hydroxide to each 100ml of medium at 50°C. Do not reheat after adjustment. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 1-2
Moisture level - less than or equal to 7%
pH 6.5 ± 0.2 at 25°C (without adjustment)
pH 7.0 ± 0.1 at 25°C (with adjustment)
Clarity - clear/slight haze
Gel strength - firm, comparable to 11.5g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Antibiotic Medium No. 1

Reactions after incubation at 37°C for 18 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Bacillus subtilis	ATCC®6633	1-3mm dry, cream colonies
Micrococcus luteus	ATCC®10240	No growth or pinpoint-0.5mm straw/yellow colonies
Kocuria rhizophila	ATCC®9341	Pinpoint-1mm yellow colonies
Staphylococcus epidermidis	ATCC®12228	0.25-1mm cream colonies

A satisfactory result is represented by reactions in accordance with the specification.

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Tested using adjusted medium

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Micrococcus luteus	ATCC®10240	Pinpoint-0.5mm straw/yellow colonies

A satisfactory result is represented by reactions in accordance with the specification.

Kanamycin diffusion assay is performed using single discs with *Staphylococcus aureus* ATCC®6538P and incubated at 37 ± 2°C for 18 hours.

	Limits (mm)
Kanamycin K30	19.0 - 26.0

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Directions and Microbiological tests	Addition of pH adjusted media directions and testing	Change control	MOC-2025-1585