Distribution: Central File

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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

CLED MEDIUM (WITH ANDRADE INDICATOR) CM0423

Typical Formula*

Peptone	grams per litre	4.0
'Lab-Lemco' powder		3.0
Tryptone		4.0
Lactose		10.0
L-Cystine		0.128
Bromothymol blue		0.02
Andrade indicator		0.1
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 36.2g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Light green, free-flowing powder
Colour on reconstitution - blue/green
Moisture level - less than 7%
pH 7.5 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar or Columbia Blood Agar Base enriched with 5%v/v horse blood, as appropriate

Medium is challenged with 10-100 colony-forming units

Reactions after incubation at 37°C for 18 hours

Escherichia coli	ATCC® 25922	1-2mm orange semi-translucent colonies, pink halo
Enterococcus faecalis	ATCC® 19433	0.5-1mm deep orange colonies, pink halo
Staphylococcus aureus	ATCC® 25923	0.5-2mm yellow/orange colonies, pink halo
Proteus mirabilis	NCTC 10975	0.5-1.5mm blue/green translucent colonies
Salmonella typhimurium	ATCC® 14028	0.5-2mm pale blue colonies

Reactions after incubation at 37°C for 48 hours

Lactobacillus fermentum	ATCC® 9338	Pinpoint-1mm colourless colonies

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

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

Reactions after incubation at 37°C for 18 hours

Inoculation with mixed culture using diminishing sweep technique

Proteus mirabilis NCTC 10975 and *Escherichia coli* ATCC® 25922

Differentiation between lactose and non-lactose fermenters shall be comparable to the standard after incubation at 37°C for 18 hours.