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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
EDWARDS MEDIUM (MODIFIED) CM0027		

EDWARDS MEDIUM (MODIFIED)

CM0027

Typical Formula*

'Lab-Lemco' powder	grams per litre	10.0
Peptone		10.0
Aesculin		1.0
Sodium chloride		5.0
Crystal violet		0.0013
Thallos sulphate		0.33
Agar		15.0

*adjusted as required to meet performance standards

Directions

Suspend 41g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 115°C for 20 minutes. Cool to 50°C, add 5 to 7% v/v sterile bovine or sheep blood, mix well and pour plates.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution – straw/blue hue
 Moisture level - less than or equal to 7%
 pH - 7.4 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Columbia Blood Agar Base enriched with 5% v/v horse blood

Enriched with 7% v/v sheep blood

Reactions after incubation at 37°C for 18–24 hours

Medium is challenged with 10-100 colony-forming units

<i>Streptococcus agalactiae</i>	ATCC®13813	0.25-1mm blue colonies, no fermentation
<i>Enterococcus faecalis</i>	ATCC®29212	0.25-1mm blue/black colonies with fermentation
<i>Streptococcus pyogenes</i>	ATCC®19615	0.25-0.5mm pale blue colonies, no fermentation

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

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

<i>Staphylococcus aureus</i>	ATCC®9144	No growth
<i>Escherichia coli</i>	ATCC®25922	No growth
<i>Staphylococcus epidermidis</i>	ATCC®12228	No growth

Negative strains are inhibited.

Additional challenging strains are employed.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to new document format and correction of typographical/minor errors. Change NCTC6571 to ATCC®9144. Addition of control media and result criteria.	Change control	BT-CC-1924