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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SORBITOL MacCONKEY AGAR WITH BCIG CM0981		

SORBITOL MacCONKEY AGAR WITH BCIG

CM0981

Typical Formula*

	grams per litre
Peptone	20.0
Sorbitol	10.0
Bile salts No.3	1.5
Sodium chloride	5.0
Neutral red	0.03
Crystal violet	0.001
5-bromo-4-chloro-3-indolyl-β-D-glucuronic acid	0.1
Agar	15.0

* adjusted as required to meet performance standards

Directions

Suspend 51.6g in 1 litre of distilled water. Mix well and sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Straw/pink, free-flowing powder
 Colour on reconstitution - dark red
 Moisture level - less than or equal to 7%
 pH 7.1 ± 0.2 at 25°C
 Clarity – clear
 Gel strength - firm, comparable to 15g/litre of agar


Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 37°C for 18 hours

Medium is challenged with 10-100 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	1-2mm blue/purple colonies
<i>Escherichia coli</i> (O157-H7) (VT-ve)	NCTC12900	1-2mm straw colonies
<i>Escherichia coli</i> (O157-H7)	NCTC12079	1-2mm straw colonies
<i>Salmonella typhimurium</i>	ATCC®14028	1-2mm pale pink colonies
<i>Shigella sonnei</i>	ATCC®25931	1-2mm straw colonies, green blue centre
<i>Shigella flexneri</i>	ATCC®12022	1-2mm straw colonies
<i>Klebsiella pneumoniae</i>	ATCC®29665	1-3mm pink mucoid colonies

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Proteus mirabilis NCTC10975 0.5-2mm straw colonies, no swarming

A satisfactory result is represented by recovery equal to or greater than 70% of the control medium. For *Proteus mirabilis* NCTC10975, a satisfactory result is represented by recovery equal to or greater than 30% of the control medium.


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

<i>Staphylococcus aureus</i>	ATCC®25923	No growth
<i>Enterococcus faecalis</i>	ATCC®19433	No growth

Negative strains are inhibited.

Additional challenging strains are employed.

A dilute mixed culture of *Escherichia coli* ATCC®25922 (Sorbitol positive) and *Escherichia coli* (O157-H7) NCTC12900 (Sorbitol negative) shall give defined differentiation and be comparable to the standard after incubation at 37°C for 18 hours.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological Characteristics	Change <i>Klebsiella pneumoniae</i> ATCC®29665 from 2-3mm to 1-3mm pink mucoid colonies. Correction of minor typographical errors.	IVDR Project - harmonisation of documentation (2017746)	MBD-2022-0167