	Document Owner Department: QC	BT-SPEC-0206
		Page 1 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SORBITOL MacCONKEY AGAR CM0813/ CB0813		

SORBITOL MacCONKEY AGAR

CM0813/ CB0813

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
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 51.5g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C. Mix well and pour into sterile Petri dishes. Alternatively, cool to 50°C and aseptically add the contents of 2 vials of Cefixime-Tellurite Supplement (SR0172E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

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 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar


Reactions after incubation at 37 ± 2°C for 21 ± 3 hours

Tested using unsupplemented medium

Medium is challenged with 10-100 colony-forming units

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

A satisfactory result is represented by recovery equal to or greater than 50% recovery of the control medium.

	Document Owner Department: QC	BT-SPEC-0206
		Page 2 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SORBITOL MacCONKEY AGAR CM0813/ CB0813		

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

<i>Staphylococcus aureus</i>	ATCC®25923	No growth
<i>Staphylococcus aureus</i>	ATCC®6538	No growth

Negative strains are inhibited or shall produce a negative diagnostic reaction.

Inoculation with mixed culture using diminishing sweep technique

Escherichia coli ATCC®25922 (sorbitol positive) and *Escherichia coli* NCTC12900 (sorbitol negative)

Differentiation between sorbitol positive and sorbitol negative strains shall be comparable to the standard after incubation at 37°C for 24 hours

Tested with the addition of Cefixime-Tellurite Supplement SR0172


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

<i>Proteus mirabilis</i>	NCTC10975	No growth
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Medium is challenged with greater than 1E+02 colony-forming units

<i>Escherichia coli</i>	ATCC®11775	No growth or pinpoint to 0.25mm pink colonies
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Negative strains are inhibited or shall produce a negative diagnostic reaction.

	Document Owner Department: QC	BT-SPEC-0206
		Page 3 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SORBITOL MacCONKEY AGAR CM0813/ CB0813		

Testing performed in accordance with ISO11133: 2014

Reactions after incubation at 37 ± 2°C for 21 ± 3 hours

Tested with the addition of Cefixime-Tellurite Supplement SR0172

Medium is challenged with 50-120 colony-forming units

Escherichia coli NCTC12900 WDCM00014 1-2mm straw colonies

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

Medium is challenged with greater than 1E+04 colony-forming units

Escherichia coli ATCC®25922 WDCM00013 No growth or pinpoint to 0.25mm pink colonies


Escherichia coli ATCC®8739 WDCM00012 No growth or pinpoint to 0.25mm pink colonies

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

Staphylococcus aureus ATCC®25923 WDCM00034 No growth

Staphylococcus aureus ATCC®6538 WDCM00032 No growth

Negative strains are inhibited or shall produce a negative diagnostic reaction.

	Document Owner Department: QC	BT-SPEC-0206
		Page 4 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SORBITOL MacCONKEY AGAR CM0813/ CB0813		

Revision History

Section / Step	Description of Change	Reason for Change	Reference
All	Reformatting of document to new format	N/A	N/A
N/A	Removal of <i>Shigella flexneri</i> ATCC® 12022 NCTC12698	Update to test specification	BT-CC-2203
ISO 11133 compliance	Change of lower limit for sorbitol positive <i>E. coli</i> . Addition of performance criteria	Change control	BT-CC-2380
Document title	Inclusion of CB0813	Change Control	MOC-2022-1091