	Document Owner Department: QC	BT-SPEC-0180
		Page 1 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BACILLUS CEREUS AGAR BASE CM0617		

BACILLUS CEREUS AGAR BASE

CM0617

Typical Formula*

Peptone	grams per litre	1.0
Mannitol		10.0
Sodium chloride		2.0
Magnesium sulphate		0.1
Di-sodium hydrogen phosphate		2.5
Potassium dihydrogen phosphate		0.25
Sodium pyruvate		10.0
Bromothymol blue		0.12
Agar		15.0

* adjusted as required to meet performance standards

Directions


Suspend 20.5g in 475ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add 25ml of Egg Yolk Emulsion (SR0047) and the contents of 1 vial of Polymyxin B Supplement (SR0099E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Dark straw/yellow, free-flowing powder
 Colour on reconstitution - dark blue
 Moisture level - less than or equal to 7%
 pH 7.2 ± 0.2 at 25°C
 Clarity - opaque
 Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

	Document Owner Department: QC	BT-SPEC-0180
		Page 2 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BACILLUS CEREUS AGAR BASE CM0617		

Reactions after incubation at 37 ± 2°C for 18 ± 2 hours

Tested with the addition of 5% v/v Egg Yolk Emulsion SR0047 and Polymyxin B Supplement SR0099

Medium is challenged with 10-100 colony-forming units

<i>Bacillus cereus</i>	ATCC®10876	3-5mm peacock blue colonies with halo
<i>Bacillus cereus</i>	ATCC®14579	3-5mm peacock blue colonies with halo

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

Medium is challenged with 10-100 colony-forming units

<i>Staphylococcus aureus</i>	ATCC®25923	0.5-1mm yellow colonies, with or without halo
<i>Enterococcus faecalis</i>	ATCC®19433	0.5-1mm yellow colonies, no halo

For *Staphylococcus aureus* ATCC®25923 and *Enterococcus faecalis* ATCC®19433, a satisfactory result is represented by recovery of equal to or greater than 50% of the control medium.

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

<i>Bacillus coagulans</i>	ATCC®7050	No growth
<i>Pseudomonas aeruginosa</i>	ATCC®27853	No growth
<i>Salmonella typhimurium</i>	ATCC®14028	No growth

Negative strains are inhibited.

Testing performed in accordance with ISO11133:2014


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

Inoculation using diminishing sweep technique

Medium is challenged with 1E+03 to 1E+04 colony-forming units

<i>Bacillus cereus</i>	ATCC®11778	WDCM00001	3-5mm peacock blue colonies with halo
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A satisfactory result is represented by growth of positive strains with a positive diagnostic reaction (peacock blue colonies and halo).

	Document Owner Department: QC	BT-SPEC-0180 Page 3 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BACILLUS CEREUS AGAR BASE CM0617		

Reactions after incubation at 37 ± 2°C for 44 ± 4 hours

Inoculation using diminishing sweep technique

Medium is challenged with greater than 1E+03 colony-forming units


<i>Bacillus subtilis</i>	ATCC® 6633	WDCM00003	No growth or 0.5-3mm straw colonies, no halo
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A satisfactory result is represented by inhibition or growth of colonies with a negative diagnostic reaction (i.e. straw colonies without halo).

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

<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth
<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth

Negative strains are inhibited.

	Document Owner Department: QC	BT-SPEC-0180
		Page 4 of 4
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BACILLUS CEREUS AGAR BASE CM0617		

Revision History

Section / Step	Description of Change	Reason for Change	Reference
Creation of ISO11133 section	Update to include testing of ISO11133:2014	Change control	BT-CC-1116
Change of <i>S. aureus</i> ATCC® 25923	Change <i>S. aureus</i> ATCC® 25923 on CM617 with SR47 egg yolk specification to 'with or without halos'	QC specification for CM617 is not aligned to the website information and to SR47 specification. <i>S. aureus</i> is Lecthinase +ve and can produce halos.	BT-CC-2070
Entire document	Update to new document format and correction of typographical/minor errors. Removal of 'Selective' from the document title. Change 'zone' to 'halo'.	Change Control	BT-CC-2263