	Document Owner Department: QC	BT-SPEC-0091
		Page 1 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
CHARCOAL AGAR (CM0119)		

CHARCOAL AGAR

CM0119

Typical Formula*

'Lab-Lemco' powder	grams per litre	10.0
Peptone		10.0
Soluble starch		10.0
Activated carbon		4.0
Sodium chloride		5.0
Nicotinic acid		0.001
Agar		12.0

* adjusted as required to meet performance standards


Directions

Suspend 51g 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 and add 10% v/v Horse Blood (SR0050). Mix well and pour into sterile Petri dishes.

The medium may be made selective for the isolation of *Bordetella pertussis* and *B. parapertussis* by the addition of 1 vial of Bordetella Selective Supplement (SR0082E) reconstituted as directed. Aseptically add the vial contents to 500ml of sterile Charcoal Agar, cooled to 50°C and enriched with 10% v/v Horse Blood (SR0050). Mix well and pour into sterile Petri dishes.

Physical Characteristics

Black, free-flowing powder
pH 7.4 ± 0.2 at 25°C
Clarity - passes test
Gel strength - firm, comparable to 12.0g/litre of agar

	Document Owner Department: QC	BT-SPEC-0091
		Page 2 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
CHARCOAL AGAR (CM0119)		

Microbiological Tests Using Optimum Inoculum Dilution


Enriched with 10% v/v horse blood

Reactions after incubation at 37°C for up to 5 days

Medium is challenged with 10-100 colony-forming units

<i>Bordetella pertussis</i>	NCTC 8605	0.25-1mm grey colonies
<i>Bordetella pertussis</i>	ATCC® 8467	ppt-1mm grey colonies
<i>Bordetella pertussis</i>	ATCC® 12742	0.25-1mm grey colonies
<i>Bordetella parapertussis</i>	NCTC 10521	0.25-1mm grey colonies
<i>Haemophilus influenzae</i>	ATCC® 35056	0.25-1.5mm grey colonies

Bordetella species should be incubated in a moist atmosphere.

	Document Owner Department: QC	BT-SPEC-0091
		Page 3 of 3
OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
CHARCOAL AGAR (CM0119)		

Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to document template Update to specification	Change control	BT-CC-1617