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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
IRON SULPHITE AGAR CM0079		

IRON SULPHITE AGAR

CM0079

Typical Formula*

	grams per litre	
Tryptone		10.0
Sodium sulphite		0.5
Iron (III) citrate		0.5
Agar		12.0

* adjusted as required to meet performance standards

Directions

Suspend 23g in 1 litre of distilled water and boil to dissolve completely. Sterilize by autoclaving for 15 minutes at 121°C. Mix well before pouring.

Physical Characteristics

Light straw, free-flowing powder
 Colour on reconstitution - straw/grey
 Moisture level - less than or equal to 7%
 pH - 7.1 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 12.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

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

Prepare medium in 10ml volumes in tubes and inoculate whilst molten at about 50°C. Allow to set and incubate as stated.

Reactions after incubation at 37°C for 24 hours

Medium is challenged with 10-100 colony-forming units

<i>Clostridium perfringens</i>	ATCC®13124	Growth and blackening with or without gas
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Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Clostridium perfringens</i>	NCTC10613	Growth and blackening with or without gas
<i>Clostridium sporogenes</i>	ATCC®19404	Growth and blackening with or without gas
<i>Clostridium tetani</i>	ATCC®9441	Growth and blackening with or without gas
<i>Escherichia coli</i>	ATCC®25922	Growth, no blackening

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A satisfactory result is represented by visible growth and blackening with or without gas. Negative strains shall produce visible growth with no blackening or gas.


Reactions after incubation at 55°C for 48 hours

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

Desulfotomaculum nigrificans ATCC®19858 Growth and blackening with or without gas

A satisfactory result is represented by visible growth and blackening with or without gas.

There shall be no thermophiles or mesophiles in sterilized media after incubation at 55°C and 37°C for 3 days.

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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. Addition of Control Medium and Result criteria.	Change control	BT-CC-1931