OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

S.I.M. MEDIUM CM0435

S.I.M. MEDIUM **CM0435**

Typical Formula*

Tryptone	grams per litre	20.0
Peptone		6.1
Ferrous ammonium sulphate		0.2
Sodium thiosulphate		0.2
Agar		3.5

* adjusted as required to meet performance standards

Directions

Suspend 30g in 1 litre of distilled water and boil to dissolve the medium completely. Dispense into final containers and sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution – straw/green
Moisture level - less than or equal to 7%
pH 7.3 ± 0.2 at 25°C
Clarity - clear
Gel strength - semi-solid, comparable to 3.5g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Inoculation using stab technique

Reactions after incubation at 37°C for 18 hours

		Motility	H_2S	Indole
Escherichia coli	ATCC®11775	+	-	+
Escherichia coli	ATCC®25922	+	-	+
Proteus hauseri	ATCC®13315	+	+	+
Shigella flexneri	ATCC®12022	-	-	-
Shigella sonnei	ATCC®25931	-	-	-
Salmonella typhimurium	ATCC®14028	+	+	-

Additional challenging strains are employed.

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

S.I.M. MEDIUM CM0435

Key to reactions:

Motility

Motility +ve spreading from the line of inoculum, turbidity of the whole medium or localised outgrowth which is usually fan-shaped

Motility -ve no spreading from the line of inoculum

Hydrogen sulphide (H_2S)

H_2S +ve blackening

H_2S -ve no blackening

Indole production

Add a few drops of Kovacs' reagent after incubation

Indole +ve pink layer

Indole -ve no colour change

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

S.I.M. MEDIUM CM0435

Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Update to new format and correction of typographical/minor errors	Change control	BT-CC-2263
Microbiological characteristics	Clarity of results criteria.	Change control	BT-CC-1927
Physical characteristics	Addition of colour on reconstitution		