

**OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION**
**S.I.M. MEDIUM CM0435**
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**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**

		<b>Motility</b>	<b>H<sub>2</sub>S</b>	<b>Indole</b>
<i>Escherichia coli</i>	ATCC®11775	+	-	+
<i>Escherichia coli</i>	ATCC®25922	+	-	+
<i>Proteus hauseri</i>	ATCC®13315	+	+	+
<i>Shigella flexneri</i>	ATCC®12022	-	-	-
<i>Shigella sonnei</i>	ATCC®25931	-	-	-
<i>Salmonella typhimurium</i>	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<sub>2</sub>S)**

H<sub>2</sub>S +ve blackening

H<sub>2</sub>S -ve no blackening

**Indole production**

Add a few drops of Kovacs' reagent after incubation

Indole +ve pink layer

Indole -ve no colour change

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**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		