	Document Owner Department: QC	BT-SPEC-0120
		Page 1 of 4
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>TRIPLE SUGAR IRON AGAR (ISO) (CM0277)</b>		

**TRIPLE SUGAR IRON AGAR (ISO)**

**CM0277**

**Typical Formula\***

	grams per litre	
Meat extract		3.0
Yeast extract		3.0
Peptone		20.0
Sodium chloride		5.0
Lactose		10.0
Sucrose		10.0
Glucose		1.0
Iron (III) citrate		0.3
Sodium thiosulphate		0.3
Phenol red		0.024
Agar		12.0


\* adjusted as required to meet performance standards

**Directions**

Suspend 65g in 1 litre of distilled water. Bring to the boil to dissolve completely. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes. Allow to set as slopes with 2.5cm butts.

**Physical Characteristics**

Straw, free-flowing powder  
 Colour on reconstitution - red  
 Moisture level - less than 7%  
 pH 7.4 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - firm, comparable to 12.0g/litre of agar

	Document Owner Department: QC	BT-SPEC-0120
		Page 2 of 4
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>TRIPLE SUGAR IRON AGAR (ISO) (CM0277)</b>		

### Microbiological Tests Using Optimum Inoculum Dilution

#### Reactions after incubation at 37°C for 18 hours

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

	<b>Slope</b>	<b>Butt</b>	<b>H<sub>2</sub>S</b>	<b>Gas</b>
<i>Escherichia coli</i> ATCC® 8739	A	AG	Negative	Positive
<i>Escherichia coli</i> ATCC® 11775	A	AG	Negative	Positive
<i>Shigella sonnei</i> ATCC® 25931	NC	A	Negative	Negative
<i>Salmonella enteritidis</i> ATCC® 13076	NC	AG	Positive	Positive
	<b>Slope</b>	<b>Butt</b>	<b>H<sub>2</sub>S</b>	<b>Gas</b>
<i>Salmonella typhimurium</i> ATCC® 14028	NC	AG	Positive	Positive
<i>Salmonella abony</i> NCTC 6017	NC	AG	Positive	Positive
<i>Salmonella nottingham</i> NCTC 7832	NC	AG	Positive	Positive
<i>Proteus hauseri</i> ATCC® 13315	A	A	Positive	Negative
<i>Enterobacter aerogenes</i> ATCC® 13048	A	AG	Negative	Positive
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Alk	Alk	Negative	Negative
<i>Staphylococcus aureus</i> ATCC® 6538	A	A	Negative	Negative

A satisfactory result is represented by reactions in accordance with the specification.

Equivalent results obtained after incubation at 30-35°C for 18-24 hours.

**OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION**

**TRIPLE SUGAR IRON AGAR (ISO) (CM0277)**

**Key**


- AG = Acid (yellow) with gas formation
- A = Acid (yellow)
- NC = No change
- Alk = Alkaline (red)

**Hydrogen sulphide (H<sub>2</sub>S)**

- Positive = Blackening
- Negative = No blackening

**Gas**

- Positive = Bubbles or splitting of agar
- Negative = No bubbles or splitting of agar

	Document Owner Department: QC	BT-SPEC-0120
		Page 4 of 4
<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>TRIPLE SUGAR IRON AGAR (ISO) (CM0277)</b>		

### Revision History

Section / Step	Description of Change	Reason for Change	Reference
N/A	Update to template and ISO	Change control	BT-CC-1901