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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
SELENITE BROTH BASE CM0395		

## SELENITE BROTH BASE

CM0395

### Typical Formula\*

	grams per litre
Peptone	5.0
Lactose	4.0
Sodium phosphate	10.0

\* adjusted as required to meet performance standards

### Directions

Suspend 19g in 1 litre of distilled water to which 4g of Sodium Biselenite (LP0121) have been added. Warm to dissolve. Mix well and distribute into final containers. Sterilize in a boiling water bath, or in free-flowing steam, for 10 minutes. DO NOT AUTOCLAVE.

### Physical Characteristics

Straw, free-flowing powder  
Colour on reconstitution - straw 1  
Moisture level - less than or equal to 7%  
pH -  $7.1 \pm 0.2$  at 25°C  
Clarity - clear

### Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar and XLD Medium

Tested with the addition of 0.4% w/v Sodium Biselenite LP0121

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

Inoculation with mixed cultures

Inoculate 10ml quantities of medium to achieve 1-15 colony-forming units/ml (cfu/ml) of *Salmonella* spp., add 1E+02 to 1E+04 cfu/ml of *Escherichia coli* ATCC®25922. Incubate broths at 37°C for 18 hours. Subculture onto XLD Medium (CM0469) and incubate plates at 37°C for 24 hours.

*Salmonella typhimurium* ATCC®14028 1-2mm red colonies with black centre

Recovery of each organism shall be comparable to the standard. *Escherichia coli* should be easily distinguishable from *Salmonella* spp. and not overgrow the target organism.

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A satisfactory result is represented by recovery of *Salmonella typhimurium* ATCC®14028 equal to or greater than a 2 log (10) increase.

Inoculation with pure cultures

Inoculate 10ml quantities of medium to achieve 1-15 colony-forming units/ml (cfu/ml) of the test organism. Incubate broths at 37°C for 18 hours. Subculture onto Tryptone Soya Agar (CM0131) and incubate plates at 37°C for 24 hours.

<i>Salmonella enteritidis</i>	ATCC®13076	1-3mm straw colonies
<i>Salmonella nottingham</i>	NCTC7832	1-3mm straw colonies
<i>Salmonella paratyphi B</i>	NCTC5705	1-3mm straw colonies

A satisfactory result is represented by recovery of *Salmonella* strains equal to or greater than a 2 log (10) increase.

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## Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Removal of Statement (ISO/CEN 11133-2 control strains are included in the test panel). Update to new format and the correction of typographical/minor errors. Addition of Control Media and Result Criteria.	Change control	BT-CC-2384