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| OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION | | |
| SELENITE CYSTINE BROTH BASE CM0699 | | |

SELENITE CYSTINE BROTH BASE

CM0699

Typical Formula*

| | grams per litre |
|---------------------|-----------------|
| Tryptone | 5.0 |
| Lactose | 4.0 |
| Di-sodium phosphate | 10.0 |
| L-Cystine | 0.01 |

* 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 by heating at 100°C for 10 minutes. DO NOT AUTOCLAVE. DO NOT OVERHEAT.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 1
Moisture level - less than or equal to 7%
pH - 7.0 ± 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


Aerobic incubation at 37°C for 18 hours

Inoculation with mixed cultures

Inoculate 10ml quantities of medium to achieve 1-10 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 1-10 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.

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