**SGL**

# TECHNICAL DATA SHEET

**DESCRIPTION**          LACTOSE BROTH, BOTTLED
**SGL PRODUCT CODE**  4725

A medium used for the cultivation of Salmonella and other coliform bacteria from food, dairy, water and other samples. The medium is often used as a pre-enrichment medium when isolating sub-lethally stressed Salmonellae or when recovering low numbers.

## FORMULATION

Typical product composition*:

| COMPONENT | WEIGHT / VOLUME |
|---|---|
| Enzymatic digest of casein | 5.0 g |
| Beef extract | 3.0 g |
| Lactose | 5.0 g |
| Purified water | 1000 ml |

*Product may be adjusted and/or supplemented to meet performance criteria

## QUALITY CONTROL SPECIFICATION

| PHYSICAL TESTS | SPECIFICATION CRITERIA |
|---|---|
| Appearance | Clear, pale straw coloured liquid |
| pH at 20-25°C | 6.9 ± 0.2 |

| STERILITY TESTS | SPECIFICATION CRITERIA |
|---|---|
| Incubation at 22-25°C for 5 days | No growth detected |
| Incubation at 35-37°C for 5 days | No growth detected |
| Incubation at 42-45°C for 5 days | No growth detected |

| GROWTH PROMOTION / INHIBITION TESTS | SPECIFICATION CRITERIA |
|---|---|
| *Escherichia coli* ATCC 8739 NCIB 8545 NCTC 12923 NMT 100 CFU inoculum | Good growth + gas production at 35-37°C incubation after not more than 1 day |
| *Klebsiella aerogenes* NCTC 9528 NMT 100 CFU inoculum | Good growth + gas production at 35-37°C incubation after not more than 1 day |
| *Proteus mirabilis* ATCC 29906 NCTC 11938 NMT 100 CFU inoculum | Moderate growth, no gas production at 35-37°C incubation after not more than 1 day |
| *Salmonella enteritidis* NCTC 5188 NMT 100 CFU inoculum | Moderate growth, no gas production at 35-37°C incubation after not more than 1 day |
| *Salmonella abony* NCTC 6017 NMT 100 CFU inoculum | Moderate growth, no gas production at 35-37°C incubation after not more than 1 day |

NMT = Not more than
NLT = Not less than
CFU = Colony forming units

Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).

**ISSUE 01**
**13 FEBRUARY 2020**