



## TECHNICAL DATA SHEET

**DESCRIPTION** XLT 4 AGAR, 90MM PLATES  
**SGL PRODUCT CODE** 7033

XLT 4 agar is a medium also known as Xylose Lysine Tergitol-4 agar. It is a highly selective culture medium used for the isolation and identification of salmonellae from food and environmental samples.

### FORMULATION

Typical product composition\*:

| COMPONENT                                   | WEIGHT / VOLUME |
|---|-----------------|
| Proteose peptone                            | 1.6 g           |
| Yeast extract                               | 3.0 g           |
| L-Lysine                                    | 5.0 g           |
| Xylose                                      | 3.75 g          |
| Lactose                                     | 7.5 g           |
| Sucrose                                     | 7.5 g           |
| Ammonium iron (111) citrate                 | 0.08 g          |
| Sodium thiosulphate                         | 6.8 g           |
| Sodium chloride                             | 5.0 g           |
| Phenol red                                  | 0.8 g           |
| Sodium tetradecylsulphate (Tergitol) 26-28% | 4.6 ml          |
| Agar  | 18.0 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 to slightly opaque, red coloured gel |
| pH at 20-25°C  | 7.4 ± 0.3                                  |

| STERILITY TESTS                  | SPECIFICATION CRITERIA |
|----------------------------------|------------------------|
| Incubation at 20-25°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  |
|---|---|
| <i>Salmonella enteritidis</i> NCTC 5188                               | Good growth compared to control, red to violet-backed colonies with black centres at 35-37°C incubation after not more than 1 day |
| <i>Salmonella typhimurium</i> ATCC 14028 NCTC 12023                   | Good growth compared to control, red to violet-backed colonies with black centres at 35-37°C incubation after not more than 1 day |
| <i>Enterococcus faecalis</i> ATCC 29212 NCTC 12697                    | Total inhibition at 35-37°C incubation after not more than 1 day  |
| <i>Proteus mirabilis</i> ATCC 29906 NCTC 11938                        | Total inhibition at 35-37°C incubation after not more than 1 day  |
| <i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981                    | Total inhibition at 35-37°C incubation after not more than 1 day  |
| <i>Escherichia coli</i> ATCC 25922 NCTC 12241<br>NMT 100 CFU inoculum | ≤10% CFU recovery compared to control 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).