

## XLT4 SUPPLEMENT

**CAT Nº: 6062**

Selective supplement for the isolation of pathogenic Enterobacteria, especially *Salmonella*

### FORMULA PER 100 ml Flask

Solution of 7-ethyl-2-methyl-4-undecanol hydrogen sulfate, sodium salt; formerly Tergitol 4 26-28%

### PREPARATION

Aseptically add 4.6 ml of XLT4 supplement to 1 L of XLT4 AGAR BASE (Cat.1159) autoclaved and cooled to 50°C. Mix well and distribute into sterile containers.

| PRODUCT         | CAT. | PACK SIZE    |
|-----------------|------|--------------|
| XLT4 SUPPLEMENT | 6062 | 100 ml Flask |
| XLT4 AGAR BASE  | 1159 | 500 g        |

### MICROBIOLOGICAL TEST

The following results were obtained in the performance of the medium from type cultures, with the supplement added after incubation at a temperature of  $35 \pm 2^\circ\text{C}$  and observed after 18 - 48 hours.

| Microorganisms                           | Growth              | Colony Color |
|--|---------------------|--------------|
| <i>Enterobacter aerogenes</i> ATCC 13048 | Moderate            | Yellow       |
| <i>Escherichia coli</i> ATCC 25922       | Moderate            | Yellow       |
| <i>Proteus mirabilis</i> ATCC 14273      | Inhibited           | Yellow       |
| <i>Salmonella typhimurium</i> ATCC 14028 | Good                | Black center |
| <i>Salmonella enteritidis</i> ATCC 13076 | Good                | Black center |
| <i>Shigella sonnei</i> ATCC 11060        | Partially Inhibited | Red          |
| <i>Shigella flexneri</i> ATCC 12022      | Partially Inhibited | Red          |

### BIBLIOGRAPHY

Miller, R. G., and C. R. Tate. 1990. XLT4: A highly selective plating medium for the isolation of Salmonella. The Maryland Poultryman, April:2-7.

Tate, C. R., R. G. Miller, and E. T. Mallinson. 1992. Evaluation of two isolation and two non-isolation methods for detecting naturally occurring salmonellae from broiler flock environmental drag-swab samples. J. Food Prot. 55:964-967.

Dusch, H., and M. Altwegg. 1995. Evaluation of five new plating media for the isolation of Salmonella species. J. Clin. Microbiol. 33:802-804.

### STORAGE

When stored as indicated, supplements remain stable until the stated expiry date shown on the label.

