Lactose-TTC-Tergitol-Agar

M&S item numbers: 5200 (25 x 20 ml) and 5201 (4 x 250 ml)

Application range: Lactose-TTC-Tergitol-Agar is used for the detection and colony count of *Escherichia coli* and coliforms in drinking water and food stuffs. The formulation complies with DIN EN ISO 9308-1.

Formulation: (typical)

Lactose	20.0 g/l
Peptone from Casein	10.0 g/l
Yeast extract	6.0 g/l
Meat extract	5.0 g/l
Tergitol-7	0.1 g/l
Bromothymolblue	0.05 g/l
2,3,5-Triphenyltetrazoliumchloride (TTC)	0.025 g/l
Agar	13.0 g/l
pH 7.2 ± 0.1	
Color	greenish-blue

Storage: Dark and dry at 4 – 12 °C

Description: With Lactose-TTC-Tergitol-Agar coliform bacteria can be cultivated selectively and differentiated. Coliforms are able to use Lactose. The resulting acidic metabolite causes a color change of the pH-indicator Bromthymolblue from blue to yellow.
TTC is metabolized to red Formazan by most organisms forming reddish colonies. Tergitol-7 inhibits the growth of gram-positive bacteria.

Typical growth: Incubation at 36 ± 1 °C for 21 ± 3 hours

Microorganisms	Growth	Colony appearance
Escherichia coli	very good	yellow later orange, with yellow halo
Enterobacter aerogenes	very good	yellow to brown, with yellow halo, occ. with reddish center
Pseudomonas aeruginosa	good	red with light blue halo
Staphylococcus aureus	no	