

Lactose-TTC-Agar mit Tergitol-7 (LTTC)

Shorthand symbol:	LTTC
Item number:	40-1278
Format:	Petri Dish, 90mm
Colour:	Blue-green
Storage conditions:	Dry, in closed bag at 4-10°C
Shelf-life:	3 Months
pH:	7.1 ± 0.2 at 25°C



Intended use and fields of application

Lactose TTC Agar with Tergitol-7 is a selective and differential medium suitable for the isolation, enumeration and identification of Coliform bacteria in food and water samples. Tergitol-7 is added to this medium to inhibit the growth of Gram-Positive bacteria and to suppress the swarming of Proteus species.

Production of acid from the growth of Lactose-fermenting Coliform bacteria results in the colour of the Bromothymol Blue Indicator in the agar to turn yellow and an insoluble red substance formed by the reduction of Triphenyl-tetrazolium Chloride (TTC) by the coliform bacteria.

Typical composition in g/l

in g per 1 litre of Nutrient medium

Peptone	10
Meat Extract	5
Yeast Extract	6
Lactose	20
Bromthymol Blue	0.05
Tergitol-7	0.1
2,3,5-Tri-phenyltetrazolium Chloride (TTC)	0.025
Agar	12

*Adjusted as required to meet performance standards

Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements BS EN ISO 11133:2014 and PhEur. (Microbiological Examination of Non-Sterile Products in accordance with Chapter 2.6.13).

Productivity

Incubation conditions: 21 ± 3 Hours at 36 ± 2 °C; Incubation Conditions: 80 – 120 KBE

Organism	Type Strain	Specification	Colony morphology
Escherichia coli	NCTC 13167 / WDCM 00179	50 – 130 %	Typical, yellow colonies with yellow background
Enterobacter aerogenes	ATCC 13048 / WDCM 00175	50 – 130 %	Orange-Yellow colonies
Citrobacter freundii	ATCC 43864 / WDCM 00006	50 – 130 %	Orange-Yellow colonies

Selectivity

Incubation conditions: 21 ± 3 hours at 36 ± 2 °C; Inoculation concentration: 10.000–1.000.000 CFU

Organism	Type Strain	Specification	Colony morphology
Enterococcus faecalis	ATCC 19433 / WDCM 00009	Complete inhibition	-

Specificity

Incubation conditions: 21 ± 3 hours at 36 ± 2 °C; Inoculation concentration: 1.000 – 10.000 CFU

Organism	Type Strain	Specification	Colony morphology
Pseudomonas aeruginosa	ATCC 27853 / WDCM 00025	Good growth	Red colonies with blue background

Microbial Contamination

Incubation conditions: 5–7 days at 20–25 °C and 5–7 days at 30–35 °C

Specification

No microbial contamination