

Tryptic soy agar + lecithin + tween 80

Code 84642.0500

Also known as

Microbial content test agar, TSA-LT

Intended use

For the detection of effectiveness of sanitization procedures.

Formula* - Composition in g/L

Enzymatic digest of casein	15.0
Papaic digest of soya bean.....	5.0
Sodium chloride.....	5.0
Lecithin.....	0.7
Polysorbate 80.....	5.0
Agar.....	15.0

* Adjusted and/or supplemented as required to meet performance criteria

Final pH 7.3 ± 0.2 at 25 °C.

Instructions for preparation

Dissolve 45.7 g in 1 litre of purified water by bringing to the boil with frequent shaking. Sterilise in the autoclave at 121 °C for 15 minutes.

Principle of the method and general information

Tryptic soy agar + lecithin + tween 80 is recommended for the detection and enumeration of microorganisms present on the surfaces of sanitary importance.

Enzymatic digest of casein and papaic digest of soya bean provide nitrogen, carbon, essential amino acids, vitamins and minerals to support bacterial growth. Lecithin and Polysorbate (Tween) 80 are included to neutralize the antibacterial activity of quaternary ammonia compounds, phenolic disinfectants and ethanol.

Instruction for use

For laboratory use only.

- Roll the swab containing specimen directly on the medium surface.
- Incubate the plates at 37°C for 48 hours and at 25°C for 7 days or as required.
- Count the cultivated colonies.

Limitation

- The effectiveness of disinfectant neutralisation depends on both the type and concentration of the disinfectant(s).

Quality Control

Physical characteristics:

Appearance of powder	Pale yellow, fine, homogeneous, hygroscopic powder
Appearance of prepared medium	Pale yellow, limpid
pH (25°C)	7.3 ± 0.2

Microbiological characteristics:

Test strains	Incubation T° / t / At.	Inoculation method	Growth characteristics
<i>S. aureus</i> ATCC 25923	37°C / 24 h / AE	GL1	Growth
	37°C / 24 h / AE	GL2	Growth
	37°C / 24 h / AE	GT1	No growth or scanty growth
	37°C / 24 h / AE	GT2	No growth or scanty growth

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<i>E. coli</i> ATCC 25922	37°C / 24 h / AE	GT3	Growth
	37°C / 24 h / AE	GL1	Growth
	37°C / 24 h / AE	GL2	Growth
	37°C / 24 h / AE	GT1	No growth or scanty growth
	37°C / 24 h / AE	GT2	No growth or scanty growth
<i>P. aeruginosa</i> ATCC 27853	37°C / 24 h / AE	GT3	Growth
	37°C / 24 h / AE	GL1	Growth
	37°C / 24 h / AE	GL2	Growth
	37°C / 24 h / AE	GT1	No growth or scanty growth
	37°C / 24 h / AE	GT2	No growth or scanty growth
	37°C / 24 h / AE	GT3	Growth

Notes

GL1: inoculation on TSA+lecithin+tween 80 in presence of a quaternary ammonium compound (0.1 mg/ml)
 GL2: inoculation on TSA+lecithin+tween 80 in presence of a quaternary ammonium compound (0.01 mg/ml)
 GT1: inoculation on Tryptic soy agar in presence of a quaternary ammonium compound (0.1 mg/ml)
 GT2: inoculation on Tryptic soy agar in presence of a quaternary ammonium compound (0.01 mg/ml)
 GT3: inoculation on Tryptic soy agar in absence of a quaternary ammonium compound
 Incubation atmosphere AE: aerobic incubation
 ATCC is a registered trade mark of American Type Culture Collection

References

- Erlandson, A. L., Jr., and C. A. Lawrence. 1953. Science 118:274-276.
- Quisno, R., I. W. Gibby, and M. J. Foter. 1946.. Am. J. Pharm. 118:320-323.

Storage conditions

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+2°C to 8°C and <60% RH).

Ordering information

84642.0500 Tryptic soy agar + lecithin + tween 80 Bottle of 500 g