

TRYPTIC SOY BROTH + LECITHIN + TWEEN 80

Medium for the cultivation of microorganisms with inactivation of disinfectants/antiseptics.

TYPICAL FORMULA	(g/l)
Tryptone	17.0
Soytone	3.0
Sodium Chloride	5.0
Glucose	2.5
Potassium Phosphate Dibasic	2.5
Lecithin	0.7
Tween 80	5.0
Final pH 7.3 ± 0.2	

DESCRIPTION

TRYPTIC SOY BROTH + LECITHIN + TWEEN 80 is a medium used for the cultivation of microorganisms and particularly for the detection of microorganisms surviving after treatment with surfaces and material with disinfectants/antiseptics.

PRINCIPLE

Tryptone and soytone are sources of peptides and free amino acids. Glucose is a energy source easy to use by microorganisms. Sodium chloride maintains the osmotic balance of the medium. Dibasic potassium phosphate acts as buffer to pH control. Lecithin and Tween 80 are added to neutralize surface disinfectants. Lecithin neutralizes quaternary ammonium compounds while Tween 80 neutralizes phenols, hexachlorophene, formalin and, with lecithin, ethanol.

PREPARATION

Verify that the contents of the bottle is homogeneous and clear, possibly inverting the bottle several times. TRYPTIC SOY BROTH + LECITHIN + TWEEN 80 can be used as such or divided, under aseptic conditions, in lower aliquots.

TECHNIQUE

1. Bring the necessary bottles of TRYPTIC SOY BROTH + LECITHIN + TWEEN 80 to room temperature or, preferably at 36±1°C.
2. Open the bottles just before inoculation. Bottles open, closed and not used within a few hours should be discarded.
3. Inoculate introducing the sample into the bottle.
4. Close immediately the bottle.
5. Incubate at 36±1°C for 18-24 hours.

INTERPRETATION OF RESULTS

Turbidity indicates microbial growth in the medium.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

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5. Hall, I.B., and M.J. Hartnett. (1964) Measurement of the bacterial contamination on surfaces in hospitals. Public Health Rep. 79:1021-1024.
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7. Pryor, A.K., and C.R. McDuff. (1969) A practical microbial surveillance system. Exec. Housekeeper, March.
8. Deli, I.A. (1979) Aspects of microbiological monitoring for nonsterile and sterile manufacturing environments. Pharm. Technol. 3:47-51.



LIOFILCHEM® S.r.l.

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PRODUCT SPECIFICATIONS

NAME

TRYPTIC SOY BROTH + LECITHIN + TWEEN 80

PRESENTATION

Glass bottles containing liquid culture medium

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
403500	6 bottles of 100 ml containing 90 ml of medium	6 bottles in cardboard box
413500	6 bottles of 200 ml containing 90 ml of medium	6 bottles in cardboard box

pH OF THE MEDIUM

7.3 ± 0.2

USE

TRYPTIC SOY BROTH + LECITHIN + TWEEN 80 is a medium used for the cultivation of microorganisms and particularly for the detection of microorganisms surviving after treatment with surfaces and material with disinfectants/antiseptics

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Light amber medium, clear without precipitates

SHELF LIFE

2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 22 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 CFU/ml
Incubation Conditions: 18-24 h at 35 ± 2°C, in aerobiosis

Microorganism		Growth
<i>Staphylococcus aureus</i>	ATCC® 25923	Good
<i>Bacillus subtilis</i>	ATCC® 6633	Good
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	Good
<i>Aspergillus niger</i>	ATCC® 16404	Good
<i>Candida albicans</i>	ATCC® 10231	Good

TABLE OF SYMBOLS

 LOT	Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 REF	Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, see instructions for use	



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