

TRYPTIC SOY BROTH + 0.3% LECITHIN + 2% TWEEN 80

General purpose medium for microbial growth, particularly suitable for detecting microbial contamination in cosmetics.

TYPICAL FORMULA

	(g/l)
Tryptone	17.0
Soytone	3.0
Sodium Chloride	5.0
Glucose	2.5
Potassium Phosphate Dibasic	2.5
Lecithin	3.0
Tween 80	20.0
Final pH 7.3 ± 0.2	

DESCRIPTION

TRYPTIC SOY BROTH + 0.3% LECITHIN + 2% TWEEN 80 like the classical Tryptic Soy Broth (TSB) is a nutritious medium that supports the growth of a wide variety of microorganisms. The addition of lecithin and tween 80 (polysorbate 80) makes the medium particularly suitable for detecting microbial contamination in cosmetics.

PRINCIPLE

Tryptone and soytone are sources of peptides and free amino acids. Sodium chloride maintains the osmotic balance of the medium. Glucose is a energy source easy to use by microorganisms. Potassium phosphate acts as buffer to pH control. Lecithin is incorporated to neutralize quaternary ammonium compounds and tween 80 is used to neutralize substituted phenolic disinfectants. Polysorbate also helps to emulsify the hydrophobic phase of the cosmetic and protects the stressed microorganisms.

PREPARATION

Verify that the contents of the tube is homogeneous and clear, possibly inverting the tube several times. TRYPTIC SOY BROTH + 0.3% LECITHIN + 2% TWEEN 80 can be used as such or divided, under aseptic conditions, in lower aliquots.

TECHNIQUE

1. Bring the necessary tubes of TRYPTIC SOY BROTH+0.3%LECITHIN+2%TWEEN 80 to room temperature or, preferably at 37°C.
2. Open the tubes just before inoculation. Tubes open, closed and not used within a few hours should be discarded.
3. Inoculate introducing the sample into the tube.
4. Close immediately the tube.
5. Incubate at 35 ± 2°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

1. MacFaddin, J.D. (1985) Media for isolation-cultivation-identification-maintenance of medical bacteria, p. 797, vol. 1. Williams & Wilkins, Baltimore, MD.
2. Association of Official Analytical Chemists. (1995). Bacteriological analytical manual 8th ed. AOAC International, Gaithersburg, MD.
3. U.S. Pharmacopeial Convention, Inc. (1999) The U.S. Pharmacopeia 24/The national formulary NF 19—2000. U.S. Pharmacopeial Convention, Inc., Rockville, MD.
4. Council of Europe (2002) European Pharmacopeia, 4th edition. European Pharmacopoeia Secretariat. Strasbourg/France.
5. ISO 18415 Standard (2007) Cosmetics – Microbiology – Detection of specified and non-specified microorganisms.



LIOFILCHEM® S.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY
Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME

TRYPTIC SOY BROTH + 0.3% LECITHIN + 2% TWEEN 80

PRESENTATION

Glass tubes containing 10 ml medium

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
24460	20 x 10 ml tubes	20 tubes in cardboard box

pH OF THE MEDIUM

7.3 ± 0.2

USE

TRYPTIC SOY BROTH + 0.3% LECITHIN + 2% TWEEN 80 like the classical Tryptic Soy Broth (TSB) is a nutritious medium that supports the growth of a wide variety of microorganisms. The addition of lecithin and tween 80 (polysorbate 80) makes the medium particularly suitable for detecting microbial contamination in cosmetics

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: 24 h at 35 ± 2°C

Microorganism		Growth
<i>Staphylococcus aureus</i>	ATCC® 6538	Good
<i>Bacillus subtilis</i>	ATCC® 6633	Good
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	Good
<i>Salmonella typhimurium</i>	ATCC® 14028	Good
<i>Escherichia coli</i>	ATCC® 8739	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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