

# Soybean Casein Lecithin Polysorbate 80 Medium

Art. No. 02-613

## Also known as

SCDLP 80 Broth; TSB + Lecithin + Polysorbate 80

## Specification

Non-selective liquid medium suitable for detecting microbial contamination in cosmetics, according to the ISO Standards 18415, 18416, 21149 and 21150.

## Formula\* in g/L

Casein peptone.....	17,00
Soybean peptone.....	3,00
Sodium chloride.....	5,00
Di-potassium phosphate.....	2,50
Dextrose.....	2,50
Lecithin.....	1,00
Final pH 7,2 ± 0,2 at 25°C	

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

## Directions

Dissolve 30 g of the powder in 1 L of distilled water containing 7 mL of Polysorbate 80. Heat if necessary.

Dispense in suitable containers and sterilize in the autoclave at 121°C for 15 minutes.

## Description

The composition of this medium corresponds to the classical Tryptic Soy Broth (TSB) with the addition of Lecithin and Polysorbate 80. In this way the culture medium combines the optimal growth characteristics of TSB with the antimicrobial, neutralizing action of the lecithin and the Polysorbate 80. Polysorbate also helps to emulsify the hydrophobic phase of the cosmetic and protects the stressed microorganisms.

## Technique

This medium is used as an enrichment broth in the first step of microbial detection.

Refer to the specific standard method for the appropriate procedure.

## References

- ISO/TS 11133-1: 2009 Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory.
- ISO/TS 11133-2: 2003 Corr. 2004 Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 2: Practical guidelines on performance testing of culture media.
- ISO 18415 Standard (2007) Cosmetics - Microbiology - Detection of specified and non-specified microorganisms.
- ISO 18416 Standard (2007) Cosmetics - Microbiology - Detection of *Candida albicans*.
- ISO 21149 Standard (2006) Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria.
- ISO 21150 Standard (2006) Cosmetics - Microbiology - Detection of *Escherichia coli*.
- ISO 22717 Standard (2006) Cosmetics - Microbiology - Detection of *Pseudomonas aeruginosa*.

## Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4°C to 30°C and <60% RH).

## Quality control

**Incubation temperature:** 35°C ± 2,0

**Incubation time:** 24 h

**Inoculum:** 10-100 CFU (according to standard ISO/TR 11133-1:2000 and ISO/TS 11133-2:2003)

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