

Also known as

SCDLP 80 Broth; TSB Lecitina Polisorbato 80

Specification

Non-selective liquid medium suitable for detecting microbial contamination in cosmetics, according to the ISO Standards.

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 pH7,2 ±0,2 at 25 °C

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

Directions

Dissolve 31 g of the powder in 1 L of distilled water with 7 mL of Polysorbate 80 (Art. No. DSHB3131). Distribute in suitable containers and 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.

Quality control

Incubation temperature: 32,5 ±2,5°C **Incubation time:** 20-24 h

Inoculum: Practical range 10-100 CFU. Min. 50 CFU (productivity), according to Ph. Eur.

Microorganism	Growth	Remarks
<i>Bacillus subtilis</i> ATCC® 6633	Good	-
<i>Staphylococcus aureus</i> ATCC® 6538	Good	-
<i>Escherichia coli</i> ATCC® 8739	Good	-
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Good	-
<i>Candida albicans</i> ATCC® 10231	Good	-

References

- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 18415 Standard (2017) Cosmetics - Microbiology - Detection of specified and non-specified microorganisms.
- ISO 18416 Standard (2015) Cosmetics - Microbiology - Detection of *Candida albicans*.
- ISO 21149 Standard (2017) Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria.
- ISO 21150 Standard (2015) Cosmetics - Microbiology - Detection of *Escherichia coli*.
- ISO 22717 Standard (2015) Cosmetics - Microbiology - Detection of *Pseudomonas aeruginosa*.
- ISO 22718 Standard (2015) . Cosmetics - Microbiology - Detection of *Staphylococcus aureus*.

Storage

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