SCDLP 80 Broth ISO

Cat. 2191

For the detection of specified and non-specified microorganisms in cosmetic products.

Practical information

Industry: Cosmetics

Regulations: ISO 18415



Principles and uses

SCDLP 80 Broth is used for the detection of specified and non-specified microorganisms in cosmetic products.

The composition of this medium corresponds to the classical TSB (Trypticase Soy Broth) formulation with thw addition of lecithin and polysorbate 80. The relatively high casein peptone content provides optimal conditions for the spore germination and regeneration of even damaged microorganisms. Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, formalin and with lecithin ethanol. Casein peptone and soy peptone provide the nitrogen source, vitamins, and growth factors, sodium chloridemantains the osmotic balance and dipotassium hydrogenphosphate act as a buffer.

Formula in g/L

Glucose	2,5	Casein peptone	17
Lecithin	1	Polysorbate 80	7
Sodium chloride	5	Soy peptone	3
Dipotassium hydrogen phosphate	2,5		

Typical formula g/L * Adjusted and/or supplemented as required to meet performance criteria.

Preparation

Suspend 38,0 grams of the medium in a liter of distilled water. Dissolve by heating with frequent agitation. Boil for 1 minute. Distribute in the appropriate containers and sterilize at 121 °C for 15 minutes.

Instructions for use

- Add 1 ml or 1 g of the sample to 9 ml of the enrichment broth.
- Incubate the prepared suspension at 32,5±2,5 ºC for at least 20 hours.
- Spread an aliquot of the enrichment broth incubated on an agar non-selective plate.
- Incubate the plate at a temperature of 32,5±2,5 ºC for 48-72 hours.
- Carry out the specifics procedures for the identification of P. aeruginosa, E. coli, S. aureus and C. albicans.

Quality control

Solubility	Appareance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25ºC)
Slight precipitate	Fine powder	Light beige	Amber slightly opalescent	7,2±0,2

Microbiological test

Incubation conditions: (32,5±2,5 ºC / 20 h)

Microorganisms	Specification
Candida albicans ATCC 10231	Good growth
Staphylococcus aureus ATCC 6538	Good growth
Escherichia coli ATCC 8739	Good growth
Pseudomonas aeruginosa ATCC 9027	Good growth

Storage

Temp. Min.:2 ºC
Temp. Max.:8 ºC

Bibliography

ISO normative 18415:2017 Cosmetics — Microbiology — Detection of specified and non-specified microorganisms