

TRYPTONE (TRYPTIC) SOY BROTH USP + LECITHIN + TWEEN 80

(EUROPEAN PHARMACOPOEIA)

General purpose medium for microbial growth.

DESCRIPTION

TRYPTONE (TRYPTIC) SOY BROTH + LECITHIN + TWEEN 80 like the classical Tryptic Soy Broth 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.

COMPOSITION

	g/L
Tryptone (Pancreatic Digest of Casein)	17.0
Peptic Digest of Soybean Meal	3.0
Glucose	2.5
Sodium Chloride	5.0
Dipotassium Hydrogen Phosphate	2.5
Tween 80	5.0
Lecithin	0.7

Final pH 7,3 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

Observe the precautions normally taken when handling laboratory reagents.

Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

Safety Data Sheet is available on request for professional users.

All waste must be disposed of according to local directives.

STORAGE AND STABILITY

Prepared medium: 10-25°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

PROCEDURE

For use in industrial microbiology, inoculate the sample or material to be tested into the medium.

RESULTS

The presence of turbidity indicate microbial growth.

QUALITY CONTROL

Prepared medium: clear, light amber to amber.

Incubation conditions: 37°C for 24-48 hours:

MICROORGANISM	GROWTH
Aspergillus brasiliensis ATCC 16404	Good-Luxuriant
Pseudomonas aeruginosa ATCC 9027	Good-Luxuriant
Staphylococcus aureus ATCC 25923	Good-Luxuriant
Candida albicans ATCC 10231	Good-Luxuriant

REFERENCES

- American Public Health Association. Standard Methods for the Examination of Water and Wastewater, APHA, Washington, D.C.
- APHA Technical Committee on Microbiological Methods for Foods. Compendium of Methods for the Microbiological Examination of Foods, APHA, Washington, D.C.
- United States Pharmacopoeia and National Formulary (USP-NF). Rockville, MD: United States Pharmacopoeial Convention.
- European Pharmacopoeia 8.0 (2014): 2.6.1. Sterility; 2.6.12. Microbial examination of non sterile products (total viable aerobic count).
- Japanese Pharmacopoeia 16th edition (2011): 4.05 Microbial Limit Test; 4.06 Sterility Test

PRESENTATION

Packaging
REF.

Prepared medium:

TRYPTONE (TRYPTIC) SOY BROTH + LECITHIN + TWEEN 80
6 x 100 mL bottles

63712

SYMBOLS


Read the instructions

Biological hazard

CE Mark (product complies with the requirements of Regulation (EU) 746/2017)

Temperature limitation

Use by

For in vitro diagnostic use

Manufacturer