

Vegetable Peptone Broth (TSB Vegetable)

Cat. 1380

Universal culture medium without inhibitors and broad-spectrum indicators.

Practical information

Applications	Categories
Enrichment	General use
Diluent	General use

Industry: Pharmaceutical/Veterinary / Clinical / Food / General cultivation / Cosmética

Principles and uses

Vegetable Peptone Broth (TSB Vegetable) is a non-animal Trypticasein Soy Broth medium very rich in nutrients for general use in microbiological laboratories.

It supports the abundant growth of fastidious organisms such as pneumococci, streptococci, Neisseriae, etc. The medium is used frequently in many procedures of diagnostic research or microbiology. It is used for the isolation and sensitivity testing of all types of pathogens, and for the production of antigens for agglutination and serological tests. The peptone used in this broth is from non-animal origin and conforms to the requirements of the pharmaceutical industry and biotechnology.

Dextrose is the fermentable carbohydrate providing carbon and energy. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Dipotassium phosphate is a buffering agent.

Formula in g/L

Dextrose	2,5	Dipotassium phosphate	2,5
Sodium chloride	5	Vegetable peptone	20

Preparation

Suspend 30 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121 °C for 15 minutes.

Instructions for use

- Take the inoculum with a sterile loop.
- Submerge the handle into the medium and shake gently.
- Incubate at 35±2 °C for 18-24 hours.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	7,3±0,2

Microbiological test

Incubation conditions: (35±2 °C / 18-24 h).

Microrganisms	Specification
Candida albicans ATCC 10231	Good growth
Aspergillus brasiliensis ATCC 16404	Good growth
Escherichia coli ATCC 25922	Good growth

Streptococcus pneumoniae ATCC 6305
Staphylococcus aureus ATCC 6538
Bacillus subtilis ATCC 6633

Good growth
Good growth
Good growth

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C

Bibliography

Deutsches Arzneibuch, 10. Auflage; European Pharmacopeia II, United States Pharmacopeia XXIII.