

## Specification

Highly nutrient liquid medium for general purpose use, formulated according to Pharmacopeial Harmonised Method.

## Presentation

10 Prepared bottle  
Bottle 125 ml  
with: 100 ± 3 ml

### Packaging Details

1 box with 10 bottles 125 ml. Injectable cap: Plastic screw inner cap + protective outer blue cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.

### Shelf Life

15 months

### Storage

2-25 °C

## Composition

Composition (g/l):

Peptone from casein .....	17.0
Soya peptone.....	3.00
Sodium chloride.....	5.00
Dipotassium phosphate.....	2.50
D(+) Glucose.....	2.50

## Description /Technique

### Description

The Tryptic Soy Broth was initially developed for the cultivation of very fastidious microorganisms without the addition of serum, blood or any other enrichment agent.

As a general purpose culture medium it supports the growth of most organisms, both aerob and facultative anaerobes, even if their requirements are high.

TSB is used as a primary enrichment medium for food examination. In the dairy industry it is employed for testing resazurine reduction.

The medium is not suitable for maintenance purposes since carbohydrate fermentation liberates many acids which may threaten the organism's viability.

In the pharmaceutical industry it is used for sterility tests and it is applied to substances preparations or articles, which, according to the Pharmacopoeia, are required to be sterile. This culture medium is used also for pre-enrichment control strains involved in the "Grothw promotion" of culture media

### Technique

#### Sterility Test:

Use according expected results, according type of samples and validated methods.

Be specially aware of the guidelines described in the pharmacopeia for using the test for sterility.

Read the turbidity as growth indicator.

Each laboratory must evaluate the results according to their specifications.

## Quality control

### Physical/Chemical control

Color : yellow

pH: 7.3 ± 0.2 at 25°C

### Microbiological control

Prepare tubes - Inoculate: Practical range 10-100 CFU (productivity) according to harmonized Eur. Pharmacopoeia

Aerobic. Incubation at 30-35 °C for 18-72h (bacteria) and 20-25 °C for 3-5 days (moulds and yeast).

### Microorganism

*Bacillus subtilis* ATCC® 6633, WDCM 00003

*Ps. aeruginosa* ATCC® 9027, WDCM 00026

*Staphylococcus aureus* ATCC® 6538, WDCM 00032

*Escherichia coli* ATCC® 8739, WDCM 00012

*Salmonella typhimurium* ATCC® 14028, WDCM 00031

*Candida albicans* ATCC® 10231, WDCM 00054

*Aspergillus brasiliensis* ATCC® 16404

### Growth

Good

Good

Good

Good

Good

Good

Good

### Sterility Control

Incubation 14 days at 32.5 ± 2 °C: NO GROWTH.

Incubation 14 days at 22.5 ± 2 °C: NO GROWTH.

**Bibliography**

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