

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 (Dextrose) monohydrate.....	2.50 ^(*1)

(*1) Equivalent to 2.3 g of
D(+)-Glucose anhydrous.

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 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 "Growth 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.

Precautions

For in vitro diagnostic use. Do not reuse. For professional use only.

Do not use the product if it shows evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

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

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35 °C for 18-24 hours for bacteria, and at 20-25 °C for fungi and yeasts for 3-5 days.

B. subtilis double incubation temp. 30-35 °C / 20-25 °C**Microorganism****Growth**

<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good
<i>Salmonella typhimurium</i> ATCC® 14028, WDCM 00031	Good
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good
<i>Aspergillus brasiliensis</i> ATCC® 16404, WDCM 00053	Good
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003 (30-35°C)	Good
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003 (20-25°C)	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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