

TECHNICAL DATA SHEET

Article No. 9710

Tryptic Soy Broth (TSB), ready-to-use culture medium

SPECIFICATION

Prepared medium in tubes, sterile. Highly nutrient liquid medium for general purpose use, formulated according to Pharmacopeial Harmonised Method from pharmaceutical and clinical uses.

 Colour:
 Yellow

 pH:
 7.3 ± 0.2 at 25 °C

COMPOSITION IN G/ L

| Casein peptone | 17.00 |
|-------------------------------------|---------------------|
| Soy-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.

PACKAGE DETAILS

 9710-20x9ML

 Tubes size
 16x113 mm

 Volume
 9 ± 0,1 ml

 Packaging unit
 20 tubes

 1 box with 20x9 mL tubes, 16x113 mm glass tubes, ink labelled and metal-Non injectable cap.

 $\begin{array}{c|c} \underline{9710-20x10ML} \\ \hline \text{Tubes size} & 16x113 \text{ mm} \\ \hline \text{Volume} & 10 \pm 0,3 \text{ ml} \\ \hline \text{Packaging unit} & 20 \text{ tubes} \\ 1 \text{ box with } 20x10 \text{ ml tubes, } 16x113 \text{ mm glass tubes, ink labelled and metal-Non injectable cap.} \end{array}$



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BW-Bank (Swift/BIC SOLADEST600) IBAN DE85600501010002036302 Postbank Stuttgart (SwiftBIC PBNKDEFFXXX) IBAN DE3260010070000020708 Deutsche Bank (SwiftBIC DEUTDESSXXX) IBAN DE06600700700125518100 St.-Nr. 70093/40018 / USI-IdNr. DE147510304 Amtgericht Stuttgarf / IRA-Nr. 254140 Persönlich haftende Gesellschafterin: Geyer Beteiligungsgesellschaft mbH Amtgericht Stuttgarf / IRB-Nr. 252035 Geschäftsführer: Lutz-Alexander Geyer / Oliver-Alexander Geyer / André Meise / Ralf Streicher



DESCRIPTION/ TECHNIQUE

Description:

The Tryptic Soy Broth (TSB) 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 aerobes and facultative anaerobes, even if their requirements are high. Due to its high vitamin content *Brucella*, *Pasteurella* and *Streptococcus* are perfectly viable, moreover a CO₂ enriched atmosphere can further enhance growth. In anaerobic conditions this broth will grow *Bacteroides* and *Clostridium species*.

Tryptic Soy Broth's superior growth-promoting properties make it particularly suitable for tube dilution methods for antibiotic sensitivity testing.

The broth can be used for bile solubility testing in pneumococci, also for catalase and coagulase assays and for the preparation of hypersaline broths. It is a most suitable medium for the preparation of antigens and toxins in bacteria, moulds and yeasts.

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. Therefore, though it allows the growth of streptococci and *Neisseria*, these species tend to die if repeatedly subcultured in this medium.

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 use:

For professional use only.

Do not use if the product is contaminated, broken, or spoiled.

Store in a dark, dry place in their original packaging.

Avoid freezing and overheating.

The expiration date is the date of maximum inoculation.

The clinical samples to be processed may contain important pathogens, so once used they must be eliminated according to the current regulations of infectious products.



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MICROBIOLOGICAL CONTROL

Inoculate 10 - 100 CFU per unit according to harmonized Eur. Pharmacopoeia

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

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

| Microorganism | Growth |
|--|--------|
| Bacillus subtilis ATCC [®] 6633, WDCM 00003 | Good |
| Ps. aeruginosa ATCC [®] 9027, WDCM 00026 | Good |
| Staphylococcus aureus ATCC® 6538, WDCM 00032 | Good |
| Salmonella typhimurium ATCC [®] 14028, WDCM 00031 | Good |
| Escherichia coli ATCC [®] 8739, WDCM 00012 | Good |
| Candida albicans ATCC [®] 10231, WDCM 00054 | Good |
| Streptococcus pneumoniae ATCC® 49619 | Good |
| Streptococcus pyogenes ATCC® 19615 | Good |
| Aspergillus brasiliensis ATCC [®] 16404, WDCM 00053 | Good |
| Shigella flexneri ATCC® 12022, WDCM 00126 | Good |

Sterility control:

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH. Check at 7 days after incubation in same conditions.



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STORAGE

8 - 25 °C

SHELF LIFE

12 months unopened from date of manufacture

created: 13.09.2022



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