

# TECHNICAL DATA SHEET

**Article No. 9720**

**Tryptone soy broth EP USP, ready-to-use culture medium**

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## SYNONYMS

Trypticase soy broth, Tryptone soya broth, Tryptic soy broth, TSB

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## SPECIFICATION

Prepared medium, bottles, sterile. Highly nutrient liquid medium for general purpose use, formulated according to Ph.Eur./USP harm., ISO 9308-1.

Colour: Yellow  
pH: 7,3 ± 0,2 at 25 °C

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## COMPOSITION IN G/L

Casein peptone	17,0
Soy peptone	3,0
Sodium chloride	5,0
Dipotassium phosphate	2,5
D(+) Glucose (Dextrose) monohydrate(*)	2,5

(\*) Equivalent to 2,3 g D(+)-Glucose anhydrous.

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## PACKAGE DETAILS

### 9720-10x90ML

Volume 90 ± 3 ml  
Bottle size 125 ml  
Packaging unit 10 bottles

1 box with 10 x 90 ml in 125-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.



9720-10x90ML-PF250

Volume	90 ± 3 ml
Bottle size	250 ml
Packaging unit	10 bottles

1 box with 10 x 90 ml in 250-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

9720-10x100ML

Volume	100 ± 3 ml
Bottle size	125 ml
Packaging unit	10 bottles

1 box with 10 x 100 ml in 125-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

9720-10x200ML

Volume	200 ± 5 ml
Bottle size	250 ml
Packaging unit	10 bottles

1 box with 10 x 200 ml in 250-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

9720-10x300ML

Volume	300 ± 5 ml
Bottle size	500 ml
Packaging unit	10 bottles

1 box with 10 x 300 ml in 500-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

9720-10x450ML

Volume	450 ± 5 ml
Bottle size	500 ml
Packaging unit	10 bottles

1 box with 10 x 450 ml in 500-ml-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

9720-10x800ML

Volume	800 ± 10 ml
Bottle size	1 l
Packaging unit	6 bottles

1 box with 6 x 800 ml in 1-l-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

### 9720-10x900ML

Volume	900 ± 10 ml
Bottle size	1 l
Packaging unit	6 bottles

1 box with 6 x 800 ml in 1-l-bottles. Injectable cap: Plastic screw inner cap + protective outer blue cap. For the use of syringe needles with a diameter ≤ 0.8 mm.

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## 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 aerobes 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 Pharmacopeia, are required to be sterile. This culture medium is used also for pre-enrichment control strains involved in the "Growth promotion" of culture media.

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## TECHNIQUE

### Sterility Test:

Use according expected results, according to the 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.

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## MICROBIOLOGICAL CONTROL

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

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

#### Sterility control:

Incubation 14 days at 32,5 ± 2 °C: NO GROWTH.

Incubation 14 days at 22,5 ± 2 °C: NO GROWTH.

## REFERENCES

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## STORAGE

8 - 25 °C



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## SHELF LIFE

15 months unopened from date of manufacture

last updated: 17.07.2023

