

# T Tryptic Soy Broth without Dextrose

Art. No. 02-227

## Specification

Liquid culture medium used for the production of spores of *Geobacillus stearothermophilus* for the inhibitory substances test in food according to FDA-BAM.

## Formula\* in g/L

Casein peptone.....17,00  
Soya peptone.....3,00  
Sodium chloride.....5,00  
Dipotassium phosphate..... 2,50  
Final pH 7,3 ± 0,2 at 25°C

\* Adjusted and /or supplemented as required to meet performance criteria

## Directions

Dissolve 27,5 g of powder in 1 L of distilled water, heating if necessary. Distribute in suitable containers and sterilize in the autoclave at 121°C for 15 minutes.

## Description

TSB w/o Dextrose is produced according to the formulation from Bacteriological Analytical Manual (BAM) of Food and Drug Administration (FDA) for the production of spores of *Geobacillus stearothermophilus* used to determine the presence of inhibitory substances in milk and dairy products.

This medium is not recommended for sugar fermentation studies because the amount of fermentable carbohydrates in the soy peptone.

## References

- ISO/TS 11133-1: 2009. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory.
- ISO/TS 11133-2: 2003 Corr. 2004. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 2: Practical guidelines on performance testing of culture media.
- MATURIN, L.J. (1998) Inhibitory substances in milk. Qualitative Method II: *B. stearothermophilus* disk assay. In: FDA (Food and Drug Administration) Bacteriological Analytical Manual. 8<sup>th</sup> ed. Revision A. AOAC International Inc. Gaithersburg, VA.

## Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4°C to 30°C and <60% RH).

## Quality control

**Incubation temperature:** 35°C ± 2,0

**Incubation time:** 24 - 48 h

**Inoculum:** 10-100 CFU (according to standard ISO/TS 11133-1/2)

Microorganism	Growth	Remarks
<i>Bacillus subtilis</i> ATCC 6633	Good	-
<i>Bacillus cereus</i> var. <i>mycoides</i> ATCC 11778	Good	-
<i>Bacillus cereus</i> ATCC 10876	Good	-
<i>Geobacillus stearothermophilus</i> ATCC7953	Good	-