

# TSB (Tryptic Soy Broth)



Medium used for the cultivation and enumeration of a wide variety of microorganisms.

\*Equally use with MFDS (MB-T1053K), KP (MB-T1053P), USP, EP and KFCC (MB-T1053C).

## • CONTENTS (Liter)

Tryptone	17.0 g
Soytone	3.0 g
Dextrose	2.5 g
Sodium Chloride	5.0 g
Dipotassium Phosphate	2.5 g
Final pH = 7.3 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 30.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

## • INTERPRETATION

TSB (Tryptic Soy Broth) is a medium used for the cultivation and enumeration of a wide variety of microorganisms. Tryptone, soytone and dextrose provide nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance. Dipotassium phosphate is the buffering agent.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 30 - 35°C for 18 - 24 hours up to 3 days. \*Incubate at 20 - 25°C or 30 - 35°C for 18 - 24 hours up to 3 days (\*\*up to 5 days). Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

### Prepared medium

Appearance: slight precipitate

Color: light amber

Incubation conditions: 30 - 35°C / 18 - 24 hours up to 3 days

\*20 - 25°C or 30 - 35°C / 18 - 24 hours up to 3 days (\*\*up to 5 days)

Microorganism	ATCC	Inoculum CFU	Growth
<i>Staphylococcus aureus</i>	6538	50-100	good
<i>Pseudomonas aeruginosa</i>	9027	50-100	good
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Escherichia coli</i>	8739	50-100	good
* <i>Bacillus subtilis</i>	6633	50-100	good
** <i>Candida albicans</i>	10231	50-100	good
** <i>Aspergillus brasiliensis</i>	16404	heavy	good

**• STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Association of Official Analytical Chemists. (1995). Bacteriological analytical manual 8th ed. AOAC International, Gaithersburg, MD.
2. MacFaddin, J.D. (1985). Media for isolation-cultivation-identification maintenance of medical abcteria, p. 797, vol. 1. Williams & Wilkins, Baltimore, MD.
3. ISO 10560 : 1993.
4. Refer to the MFDS, KP, USP, EP and KFCC.

**• PACKAGE**

Cat. No : MB-T1053 TSB (Tryptic Soy Broth)	500 G
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