



Tryptone Soy Broth (U.S.P.)

(Soybean Casein Digest Medium U.S.P.)

LAB 4

Description

A general purpose nutritious broth capable of growing a wide range of bacteria and fungi. The medium is recommended by the United States Pharmacopeia for the sterility testing of a wide range of pharmaceutical products. The medium is also widely used for blood cultures although the high carbohydrate level may cause rapid growth and subsequent death of acid-producing organisms.

Formula	g/litre
Tryptone (Casein Digest USP)	17.0
Soy Peptone	3.0
Sodium chloride	5.0
Dipotassium phosphate	2.5
Dextrose	2.5

Method for reconstitution

Weigh 30 grams of powder, disperse in 1 litre of deionised water. Swirl to mix and warm if necessary to dissolve. Dispense into tubes or flasks and sterilise at 121°C for 15 minutes. Do not exceed temperature.

Appearance: Straw coloured, clear.

pH: 7.3 ± 0.2

Minimum Q.C. organisms: *E. coli* NCIMB 50034
S. aureus NCIMB 50080

Storage of Prepared Medium: Capped containers – up to 3 months at 15-20°C in the dark.

Incubation: 20-25°C aerobically for 14 days, for sterility tests. 37°C aerobically for 14 days for blood cultures.

Growth indicators: Turbidity or precipitate.

References

United States Pharmacopeia 21st edition (1985).