



## **Product Data Sheet**

### **TRYPTOSE PHOSPHATE BROTH**

**Product No.** GB-DCM-00029-1A

### **INTENDED USE**

For cultivation of fastidious bacteria and as an adjuvant to tissue culture media.

### **PRODUCT SUMMARY**

Tryptose Phosphate Broth is prepared as recommended by APHA for the cultivation of fastidious aerobic bacteria especially Streptococcus species, Listeria and pathogenic Neisseria species. It is also used for antibiotic sensitivity testing by tube method. This medium with the addition of agar and sodium azide is used for the isolation of pathogenic Streptococci, Neisseria and other fastidious microorganisms from blood, dairy products and clinical specimens. Tryptose Phosphate Broth with added agar can also be used for emulsification of cheese before isolation of Brucella species and is also recommended by Diagnostic Procedures and Reagents.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Tryptose	20.000
Dextrose	2.000
Sodium chloride	5.000
Disodium phosphate	2.500

### **PRINCIPLE**

The inclusion of tryptose as nitrogen sources makes this medium highly nutritious. Dextrose serves as the source of fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium. Phosphate salt helps in buffering the medium.

### **INSTRUCTION FOR USE**

- Suspend 29.5 grams in 1000 ml purified / distilled water.
- Add 0.1% agar, if desired. Heat if necessary to dissolve the medium completely.
- Dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

## QUALITY CONTROL SPECIFICATIONS

**Appearance of Powder :** Cream to yellow homogeneous free flowing powder.

**Appearance of prepared medium:** Yellow coloured clear solution without any precipitate.

**pH (at 25°C) :** 7.3 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Neisseria meningitidis	13090	50-100	Good-Luxuriant	35-37°C	18-24 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Good-Luxuriant	35-37°C	18-24 Hours
Streptococcus pneumoniae	6303	50-100	Good-Luxuriant	35-37°C	18-24 Hours
Streptococcus pyogenes	19615	50-100	Good-Luxuriant	35-37°C	18-24 Hours
Staphylococcus epidermidis	12228	50-100	Good-Luxuriant	35-37°C	18-24 Hours

## STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

## DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**