



## Tryptose Phosphate Broth, Modified

M1532

Tryptose Phosphate Broth, Modified is used for the cultivation of fastidious bacteria.

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Papaic digest of soyabean meal	5.000
Yeast extract	5.000
Glucose	2.000
Sodium chloride	5.000
Disodium hydrogen phosphate	2.500
Final pH ( at 25°C)	7.3±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 29.5 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Tryptone Phosphate Broth, Modified is based on original preparation as recommended by APHA (1) prepared for the cultivation of fastidious bacteria. It is also used for antibiotic sensitivity testing by tube method (2), where peptone is considered to be a stimulating factor for cells.

The inclusion of casein enzymic hydrolysate, papaic digest of soyabean and yeast extract as nitrogen sources make this medium highly nutritious. Glucose serves as the source of fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium. Phosphate salt helps in buffering the medium.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity

Yellow coloured clear solution without any precipitate.

#### Reaction

Reaction of 2.95% w/v aqueous solution at 25°C. pH : 7.3±0.2

#### pH

7.10-7.50

#### Cultural Response

M1532: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<i>Neisseria meningitidis</i> ATCC 50-100 13090		good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	good-luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant
<i>Staphylococcus epidermidis</i> ATCC 12228	50-100	good-luxuriant

## Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

## Reference

- 1.American Public Health Association, 1976, Standard methods for the Examination of Dairy Prodcuts, 14th ed. APHA Inc., New York.
- 2.MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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