



PPLO Broth Base with Crystal Violet

RDM-MYBB-02

Principle

PPLO broth base is composed of beef heart infusion form, peptone, sodium chloride and crystal violet. Beef heart infusion form and peptone provides nitrogen, vitamins, amino acids, carbon and other essential nutrients. Sodium Chloride maintains the osmotic balance. Crystal violet inhibits most gram-positive bacteria. The media must be fortified with mycoplasma supplement composed of potassium tellurite, yeast extract, desiccated horse serum and penicillin. Potassium tellurite inhibits many gram-negative bacteria. Yeast extract provide nitrogen for replication and growth. Horse serum is source of cholesterol, a mycoplasma growth stimulant. Penicillin inhibits gram- positive as well as gram-negative bacteria.

Use: Recommended for cultivating Mycoplasma.

Contents*

Ingredients

	Gram/Litre
Beef Heart Infusion Form	250.00
Peptone	10.00
Sodium Chloride	5.00
Crystal Violet	0.01
pH at 25°C	7.8 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 21.00 grams in 700 ml distilled water, boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C, aseptically add filter sterile 300 ml Mycoplasma enrichment supplement (0.01g yeast extract, 1.6 g desiccated horse serum, 55,000 units of penicillin and 50mg of potassium tellurite). Mix well and dispense into sterile test tubes and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light yellow colored free flowing, homogeneous powder
Reaction of 2.1% solution	7.8 ±0.2 at 25 °C
pH	7.60- 8.00
Color and clarity of ready medium	Yellow colored with slight purple tinge solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed in presence of 10% Carbon dioxide with added Mycoplasma Enrichment Supplement after an incubation at 22-35°C for 48 hours.

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
<i>Mycoplasma pneumoniae</i>	15531	50-100	Luxurious	22-35 °C	18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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