



## **Product Data Sheet**

### **PPLO BROTH BASE W/O CV (MYCOPLASMA BROTH BASE W/O CV)**

**Product No.** GB-DCM-00438-1A

#### **INTENDED USE**

For enrichment of Mycoplasma species (PPLO) from clinical specimens and mixed cultures.

#### **PRODUCT SUMMARY**

PPLO Broth without crystal violet is prepared according to the formula described by Morton and Lecce. Crystal violet is omitted from this formula due to its inhibitory action on some Mycolasma. It has been used for the cultivation of Mycoplasma for research studies. For the cultivation of Mycoplasma, the medium ingredients and all the supplements should be free of any toxic substances even in small amounts. Many Mycoplasma require serum for their good growth and also presence of antibiotic is necessary to prevent the growth of contaminating organisms. Mostly the Mycoplasma species are aerobic or facultatively anaerobic but some are microaerophilic. Few are anaerobic saprophytic Mycoplasma which grow best at 22-35°C while pathogenic strains grow at 35°C.

#### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Beef heart, infusion from	250.000
Peptone	10.000
Sodium chloride	5.000
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#### **PRINCIPLE**

This medium consists of beef heart, infusion from which provides nitrogen and carbon source, long chain amino acids, vitamins, and other essential nutrients. Sodium chloride maintains the osmotic balance of these formulations.

#### **INSTRUCTION FOR USE**

- Dissolve 21.0 grams in 700 ml purified/ distilled water.
- Heat is necessary to dissolve the medium completely.
- Mix well and dispense aseptically into sterile tubes.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add 300 ml Horse serum.
- If crystal violet is used as the selective agent, enrich with Ascitic fluid instead of Horse serum. If desired add 10 vials of Mycoplasma Enrichment Supplement instead of horse serum.

## QUALITY CONTROL SPECIFICATIONS

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

**Appearance of prepared medium:** Yellow coloured clear solution in tubes.

**pH (at 25°C) :** 7.8± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Streptococcus pneumoniae	6303	50-100	Good-luxuriant	22-35°C	48 Hours
Mycoplasma pneumoniae	15531	50-100	Good-luxuriant	22-35°C	48 Hours
Mycoplasma gallinarium	19708	50-100	Good-luxuriant	22-35°C	48 Hours
Mycoplasma bovis	25523	50-100	Good-luxuriant	22-35°C	48 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.**